TOSHIBA

REGZA

Owner's Manual

Integrated High Definition LCD TV/DVD Combination

COLORSTREAM® HD
DOLBY DIGITAL
SRS WOW
HDMI
HDTV HIGH-DEFINITION TELEVISION
DVD VIDEO
COMPACT disc DIGITAL VIDEO
LCDVD™

26LV67
32LV67
32LV67U

For an overview of steps for setting up your new TV, see page 12.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

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YC/M VX1A000360A0

Dear Customer,

Thank you for purchasing this Toshiba LCD TV or TV/DVD Combination. This manual will help you use the many exciting features of your new LCD TV. **Before operating your TV/DVD Combination, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 20 on page 3.

WARNING: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See “Removing the Pedestal Stand” (☞ page 5).

TV/DVD Combination Precautions

The DVD player contained in this TV contains a laser beam. Do not attempt to stare at the beam through the TV disc tray or the ventilation openings. Staring directly at the beam may cause permanent damage to your eyesight.

The DVD player contained in this TV contains a Laser System. To ensure proper use of this TV and the DVD player contained therein, please read this owner’s manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service location. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible and invisible laser radiation may be present when open and interlocks defeated. DO NOT STARE INTO the BEAM.

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer’s attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 27 and 28 on page 4.

Child Safety



It Makes A Difference Where Your TV Stands

Congratulations on your purchase!
As you enjoy your new TV, keep these safety tips in mind:

The Issue

- If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.



Toshiba Cares!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children’s safety and educate consumers and their families about television safety.

Tune Into Safety

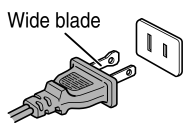
- One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- Carefully read and understand the other enclosed instructions for proper use of this product.
- Do not allow children to climb on or play with furniture and TVs.
- Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!

CEA
Consumer Electronics Association
2500 Wilson Blvd.
Arlington, VA 22201 U.S.A.
www.CE.org
CEA is the Sponsor, Producer and Manager of the International CES®

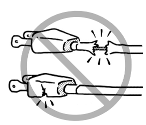
Important Safety Instructions



1) **Read these instructions.**
2) **Keep these instructions.**
3) **Heed all warnings.**
4) **Follow all instructions.**
5) **Do not use this apparatus near water.**
6) **Clean only with dry cloth.**
7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.
8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



11) **Only use attachments/accessories specified by the manufacturer.**
12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**
14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:

- ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
- NEVER allow your body to come in contact with any broken glass or liquid from the damaged television. The LCD panel inside the TV contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.
- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) **CAUTION:**
    - To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
    - To prevent electric shock, match wide blade of plug to wide slot; fully insert.

16) **WARNING:**
    To prevent the spread of fire, keep candles or other open flames away from this product at all times.

Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

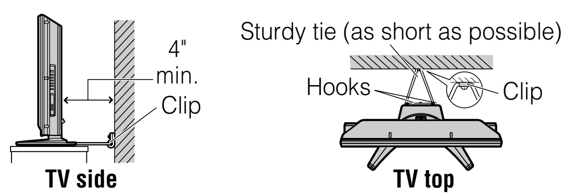
17) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

18)  **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!**
    Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.



19) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.

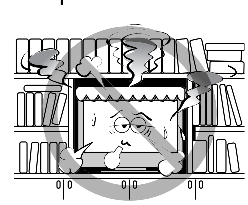
20) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy tie from the hooks on the rear of the TV pedestal to a wall, pillar, or other immovable structure. Make sure the tie is tight, secure, and parallel to the floor.



21) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

22) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
    - on a bed, sofa, rug, or similar surface;
    - too close to drapes, curtains, or walls; or
    - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

    The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV. (5 inches away from the TV slot side).



(continued)

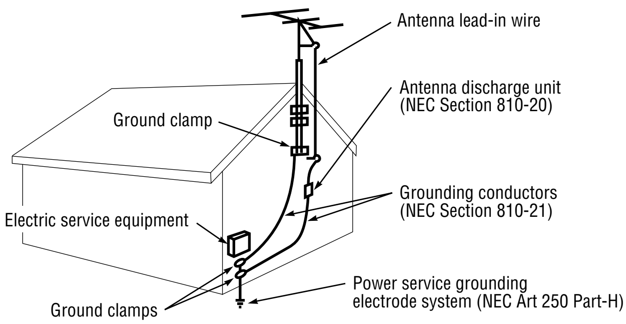
23) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.

24) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

25) Never overload wall outlets and extension cords.

26) Always operate this equipment from a 120 VAC, 60 Hz power source only.

27) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



28) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

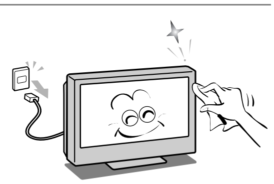
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

29) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.

30) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.



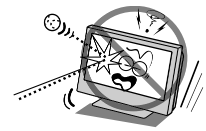
31) **WARNING:**
RISK OF ELECTRIC SHOCK!
Never spill liquids or push objects of any kind into the TV cabinet slots.

32) While it is thundering, do not touch the connecting cables or apparatus.

33) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

34) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

35) **WARNING: RISK OF SERIOUS PERSONAL INJURY OR EQUIPMENT DAMAGE!**
Never strike the screen with a sharp or heavy object.



36)
- The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
- Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 30 on this page.

Service

37) **WARNING:**
RISK OF ELECTRIC SHOCK!
Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

38) If you have the TV serviced:
- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

39) The cold cathode fluorescent lamp in the LCD panel contains a small amount of mercury.
When the TV reaches the end of its useful life, dispose of the used TV by the approved method for your area, or ask a qualified service technician to properly dispose of the TV.

***Note**: The lamp(s) inside this product contain mercury. Disposal may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronics Industries Alliance (www.eiae.org).*

Choosing a location for your LCD TV

To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

1) Read and Follow the pedestal assembly instructions included with the pedestal.

   CAUTION: Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble the pedestal as indicated below.

   Note: *Extreme care should always be used when attaching the pedestal stand to avoid damage to the LCD panel.*

2) Place the TV on a sturdy, level surface that can support the weight of the TV.
3) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. To secure the TV in this manner, use the included strap located at the rear of pedestal stand. (☞ item 20, page 3).

To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a UL-listed wall bracket appropriate for the size and weight of the LCD TV (☞ page 2) :

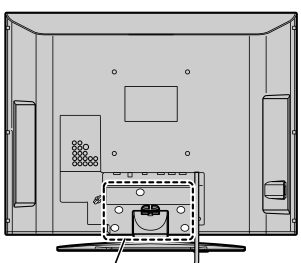
1) **CAUTION:** Two people are required for installation.
2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
3) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
4) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described below.

Removing the Pedestal Stand

1) Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

   Note: *Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.*

2) Remove the jack pack cover on the back of the TV to expose the pedestal stand screws. The jack pack cover can be removed without tools.
3) Remove the five screws shown in the diagram below. This will allow removal of the pedestal stand.
4) Once you have removed all five screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.



Safety and Care Information for TV/DVD Combination Models

DISC SLOT

- Keep your fingers well clear of the disc slot when the disc is loading or unloading. Neglecting to do so may cause personal injury.

LASER BEAM

- Never look into the opening of the disc slot or ventilation opening of the product to see the source of the laser beam. Staring directly at the beam may cause permanent damage to your eyesight.

DISC

- Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

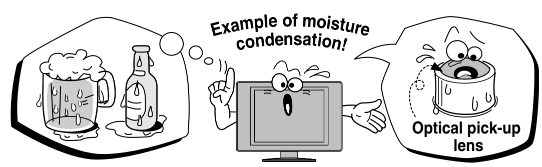
Precautions

VIBRATION

- Vibration or shock may disrupt DVD playback or cause scratches on the disc. Do not move or tilt or otherwise jolt the TV when a disc is loaded. The playback sound may skip if the TV is dropped from a height of 1.58 inch (4 cm) or more or if the TV is installed at a greater angle than recommended.

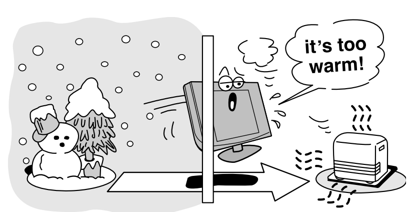
Notes on moisture condensation

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside the DVD player, one of the most crucial internal parts of the DVD player.



Moisture condensation can occur in the following conditions:

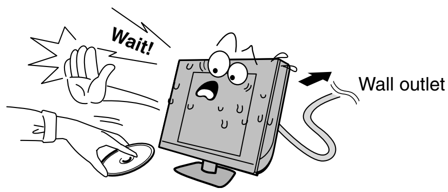
- When the TV is moved directly from a cold or air conditioned area to a warm or humid area.
- When the TV is placed in an area in which the heat has just been turned on, or where cold air from an air conditioner falls directly on the TV.



(continued)

Do not use the DVD player when moisture condensation may be present.

If you use the DVD player in such a situation, the DVD player and/or discs may become damaged. Connect the power cord of the TV to the wall outlet, turn on the TV, remove the disc, and leave the TV on for two or three hours. After two or three hours, the TV will have warmed up and evaporated any moisture. Leaving the TV connected to the wall outlet will help prevent moisture condensation in the TV or DVD player.

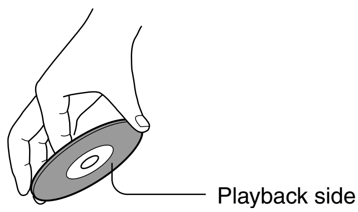


Notes on discs

On handling discs

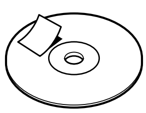
- Do not touch the playback side of the disc.
  For example, handle the disc as shown below.

DO



- Do not attach paper or tape to discs.

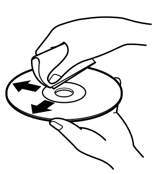
DO NOT



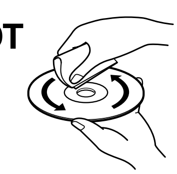
On cleaning discs

- Fingerprints and dust on discs cause picture and sound deterioration. Wipe discs from the center outward with a soft cloth. Always keep discs clean.

DO



DO NOT



- Never use any type of solvent (such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs). Using such solvents may damage the discs.

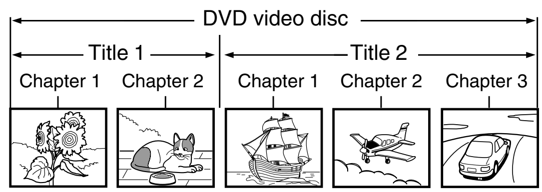
On storing discs

- Never store discs near heat sources or in an area subject to direct sunlight.
- Never store discs in places subject to moisture and dust (such as near a humidifier or in a bathroom).
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

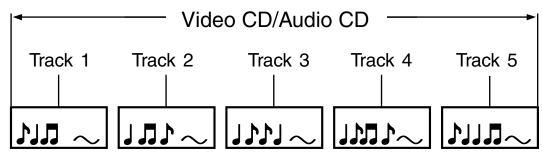
Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. Video CDs and Audio CDs are divided into tracks.

DVD video disc



Video CD/Audio CD



Each title, chapter or track is assigned a number (the “title number,” “chapter number,” and “track number,” respectively).

Some discs do not have these numbers.

Notes on copyright

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notes on region numbers

The region number of this DVD player of the TV is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find 1 or ALL, disc playback will not be allowed by the DVD player. (In this case, the TV will display a message on-screen.)

Some DVDs that have no region code label may still be subject to area restrictions and are therefore not playable.

Playable discs

This DVD player can play the following discs with the corresponding logo.

	Disc Mark	Contents	Disc Size	Maximum playback time
DVD video discs	DVD VIDEO	Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single-sided disc)
				Approx. 8 hours (double-sided disc)
			8 cm	Approx. 30 minutes (single-sided disc)
				Approx. 60 minutes (double-sided disc)
Video CDs	COMPACT disc DIGITAL VIDEO	Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
Audio CDs	COMPACT disc DIGITAL AUDIO	Audio	12 cm	Approx. 74 minutes
			8 cm	Approx. 22 minutes

The following discs may also be compatible:

- DVD-R/RW discs in DVD video format.
- CD-R/CD-RW discs in CD-DA, Video CD, MP3, or JPEG format.
- Kodak Picture CD and FUJICOLOR CD format.

- You cannot play discs other than those listed above. You cannot play discs in formats such as DVD-RAM, DVD-ROM, Photo CD, Super Audio CD (SACD™), etc., or non standardized discs even if they may be labeled as above. The damage depending on the use of those discs is NOT covered under your Toshiba warranty.
- Some CD-R/RWs cannot be played back depending on the recording conditions.
- This TV uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (for example, PAL or SECAM).
- Do not use the CD single adapter since it may not play properly.

Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that the DVD player contained in your TV/DVD Combination will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on the DVD player contained in your TV/DVD Combination, please contact Toshiba Customer Service.

CAUTION:

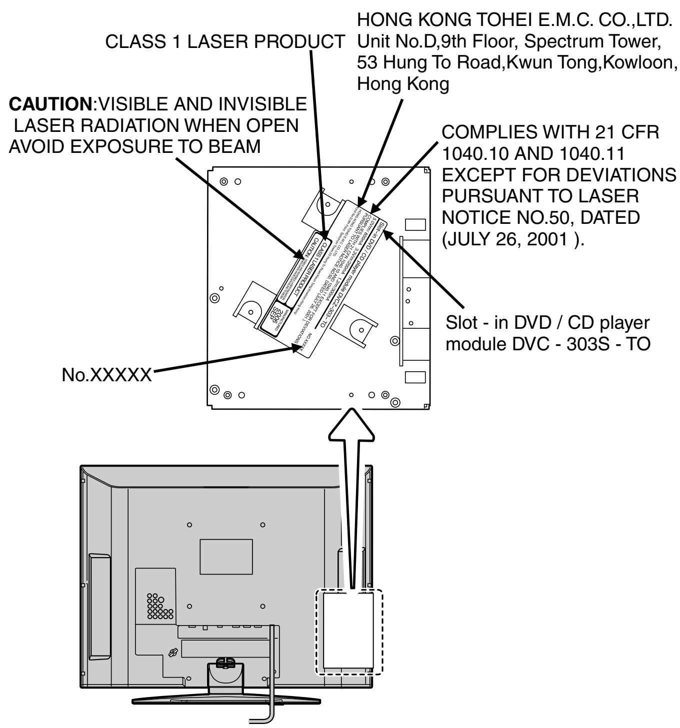
THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

USE OF CONTROLS OR ADJUSTMENTS, OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO THE LASER BEAM, NEVER TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. NEVER STARE INTO THE BEAM.

Location of required label



FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 26LV67, 32LV67 and 32LV67U Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:
Toshiba America Consumer Products, L.L.C.
82 Totowa Rd. Wayne, NJ 07470.
Ph: 1-800-631-3811

Note: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: *Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.*

Important notes about your LCD TV/DVD combination

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.

1) An afterimage (ghost) may appear on the screen if a fixed, non-moving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

Note: *Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.*

About this owner's manual (DVD player section)

This owner's manual explains the basic instructions for using the internal DVD player. Some DVDs are produced in a manner that allows specific or limited operation during playback. As such, the DVD player may not respond to all operating commands. This is not a defect in the DVD player.

Refer to the instructions provided with your DVDs.

If the symbol "⊘" appears on-screen during DVD operation, it means that the operation or feature is not permitted or available for the DVD player or disc.

For example, sometimes the DVD player is unable to stop playback of the DVD's copyright message when the STOP ■ button is pressed.

Trademark Information

- WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
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- DVD VIDEO is a trademark of DVD Format/Logo Licensing Corporation.

Contents

(continued)

Welcome to Toshiba

Thank you for purchasing this Toshiba LCD TV/DVD combination, one of the most innovative LCD TVs on the market. This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- **Three HDMI™** digital, high-definition multimedia interfaces 1080p input support (☞ page 20).
- **Two sets of ColorStream® HD** high-resolution component video inputs (☞ page 18).
- **SRS WOW™** audio technologies (☞ page 60).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (☞ page 49).
- **CableClear®** digital picture noise reduction (☞ page 58).
- **PC IN (Analog RGB)** computer terminal (☞ page 22).
- **DVD video (and Video CD, Audio CD) player** (☞ page 61).
- **Channel Labeling** allows you to put the Call Letters (e.g. ABC, HBO, etc.) on the screen along with the station numbers, so you always know what you're watching (☞ page 34).

Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

1 Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.

2 Observe the following when choosing a location for the TV:
- Read “Important notes about your LCD TV/DVD combination” (☞ page 8).
- Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure (☞ page 3).
- Place the TV in a location where light does not reflect on the screen.
- Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.

3 Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.

4 BEFORE connecting cables or devices to the TV, learn the functions of the TV’s connections and controls (☞ pages 13–14).

5 Connect your other electronic device(s) to the TV (☞ pages 15–22).

6 Install the batteries in the remote control (☞ page 23).

7 See “Learning about the remote control” (☞ page 24) for an overview of the buttons on the remote control.

8 Program the remote control to operate your other device(s) (☞ pages 25–29).

9 AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. The yellow LED will blink until the TV goes into standby mode. When the TV is in standby mode, press **POWER** on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, press and hold the **POWER** button for 5 seconds to reset the TV.

10 See “Menu layout and navigation” for a quick overview of navigating the TV’s menu system (☞ page 30).

11 Program channels into the TV’s channel memory (☞ page 33).

12 For details on using the TV’s features, see Chapters 6 and 7.

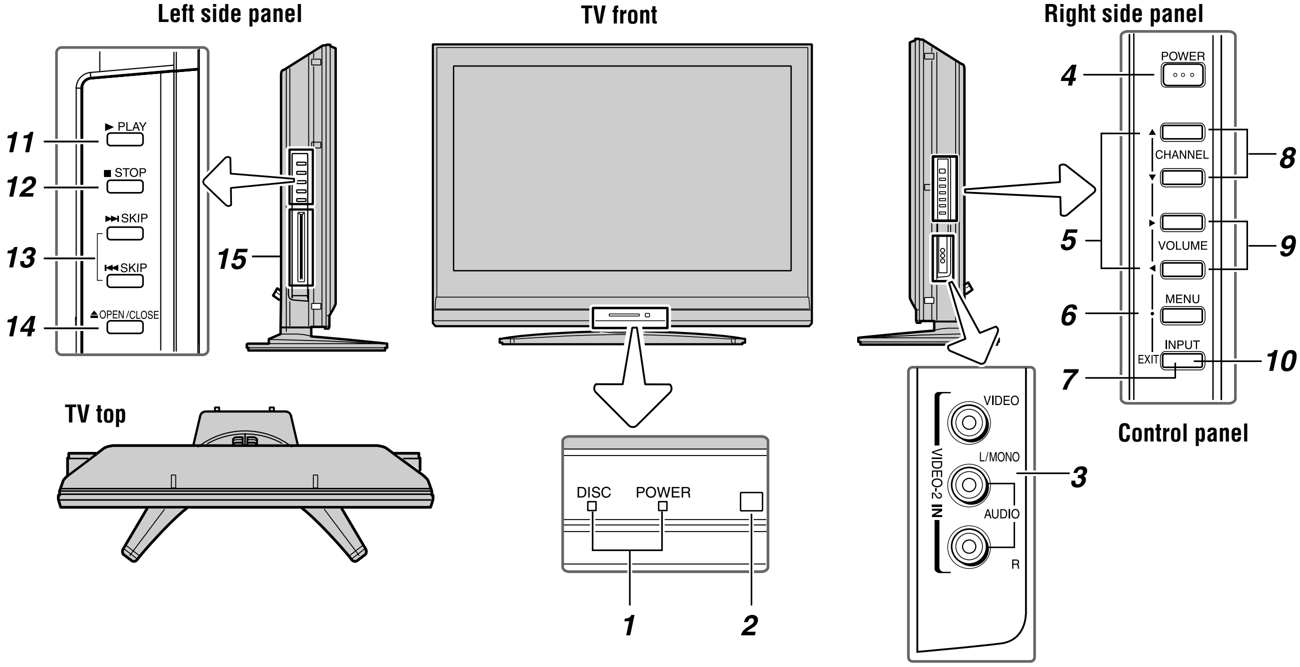
13 For details on using the DVD’s features, see Chapter 8.

14 For help, refer to the Troubleshooting Guide, Chapter 9.

15 For technical specifications and warranty information, see Chapter 10.

16 Enjoy your new TV/DVD!

TV front and side panel controls and connections



1 **Green and Yellow LEDs**
Green = Power indicator
Yellow = Disc indicator
See "LED indications" on page 71 for additional information.

2 **Remote sensor** — Point the remote control toward this remote sensor (☞ "Remote control effective range" on page 23).

3 **VIDEO-2 IN** — The side panel A/V connections are referred to as "**VIDEO 2**" and include standard A/V connections.

4 **POWER** — Press to turn the TV on and off.
If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

5 **ARROWS ▲▼◀▶** — When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.

6 **MENU (ENTER)** — Press to access the menu system (☞ pages 30–31). When a menu is on-screen, the **MENU** button on the TV's control panel functions as the **ENTER** button.

7 **EXIT** — Press to instantly close an on-screen menu.

8 **CHANNEL ▲▼** — When no menu is on-screen, these buttons change the channel (programmed channels only; ☞ page 33).

9 **VOLUME ◀▶** — These buttons adjust the volume level.

10 **INPUT** — Repeatedly press to change the source you are viewing (**ANT, Built-In DVD, VIDEO 1, VIDEO 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, PC**).

11 **PLAY** — Press to play a DVD video disc, or other playable disc.

12 **STOP** — Press to stop a DVD video disc, or other playable disc.

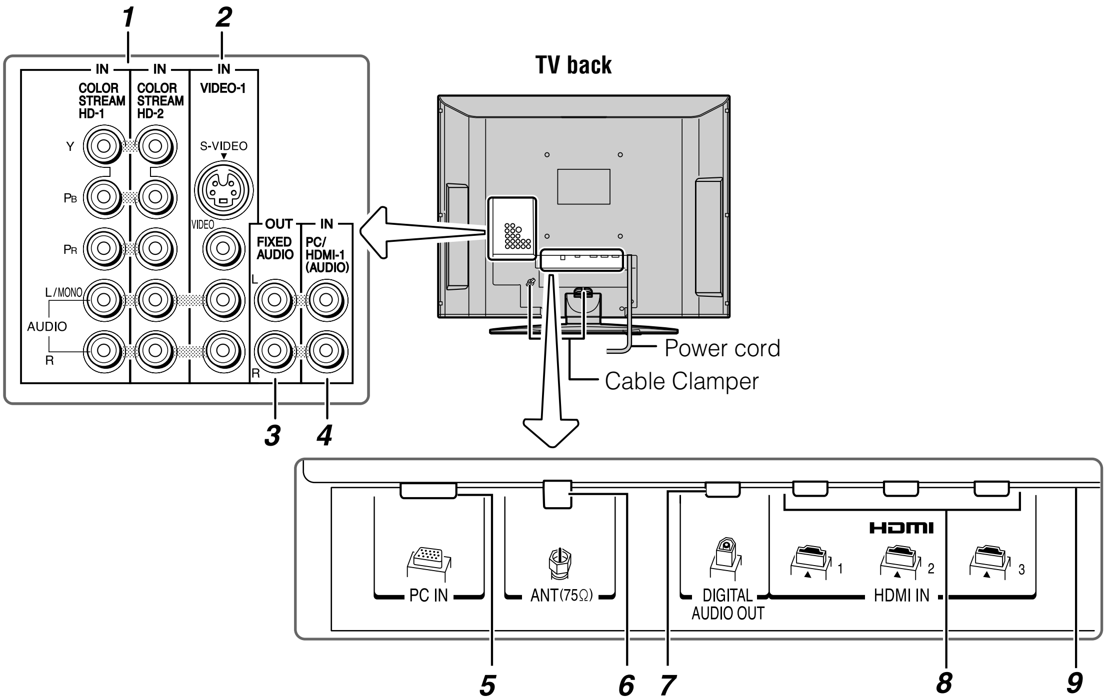
13 **SKIP** — Press to skip DVD chapter, or CD track.

14 **OPEN/CLOSE** — Press to eject a disc.

15 **DVD disc slot** — Insert a playable disc to play.

TV back panel connections

For an explanation of cable types and connections, see pages 15–22.



1 **ColorStream® HD-1** and **ColorStream® HD-2** — Two sets of ColorStream® high-definition component video inputs (with standard stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream®.

Note: *Component video cables carry only video information; separate audio cables are required for a complete connection.*

2 **VIDEO-1 IN** — Standard (composite) video and standard audio inputs plus optional S-video inputs for connecting devices with composite video or S-video output.

Note: *Standard (composite) video and S-video cables carry only video information; separate audio cables are required for a complete connection.*

3 **Fixed Audio OUT** — Analog audio outputs for connecting an audio amplifier.

4 **PC/HDMI-1 (AUDIO) IN** — PC audio input terminals are shared with HDMI-1 analog audio input terminals, and their use can be configured in the **Audio Setup** menu (☞ page 55).

5 **PC IN** — For use when connecting a personal computer.

6 **ANT** — Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

7 **Digital Audio OUT** — Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.

8 **HDMI™ IN** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 4. HDMI connection is necessary to receive 1080p signals.

9 **Service port** — For service use only. Used for updating the television's firmware.

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Overview of cable types

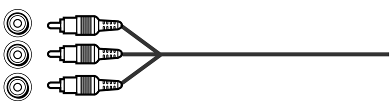
Cables can be purchased from most stores that sell audio/video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

Coaxial (F-type) cable



Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the **ANT** input on your TV.

Standard A/V cables (red/white/yellow)



Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

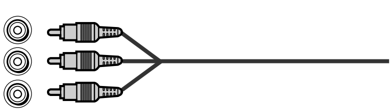
S-video cable



S-video cable is for use with video devices with S-video output. Separate audio cables are required for a complete connection.

Note: *An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.*

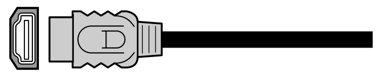
Component video cables (red/green/blue)



Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream® is Toshiba's brand of component video.) These cables are typically color-coded red, green, and blue. Separate audio cables are required for a complete connection.

Note: *Component video cables provide better picture performance than a standard (composite) video or S-video cable.*

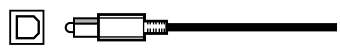
HDMI™ cable cable (with HDMI Logo "HDMI")



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (☞ page 20 and page 22).

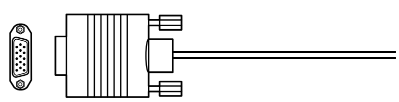
Note: *HDMI cable provides better picture performance than a standard (composite) video or S-video cable.*

Optical audio cable



Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's **DIGITAL AUDIO OUT** terminal (☞ page 21).

Analog RGB (15-pin) computer cable

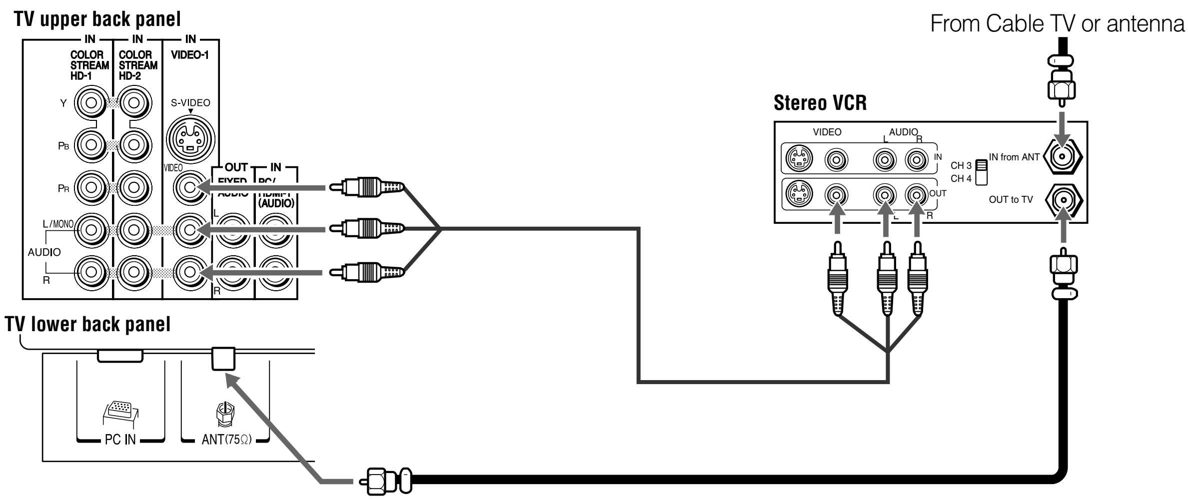


Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (☞ page 22).

About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device's owner's manual.

Connecting a VCR and antenna or Cable TV (no Cable box)



You will need:

- coaxial cables
- standard A/V cables
  - *For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to **VIDEO 1** at the same time or the picture performance will be unacceptable.*
  - *If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.*

To view the antenna or Cable signal:

Select the **ANT** video input source on the TV.*

To view the VCR:

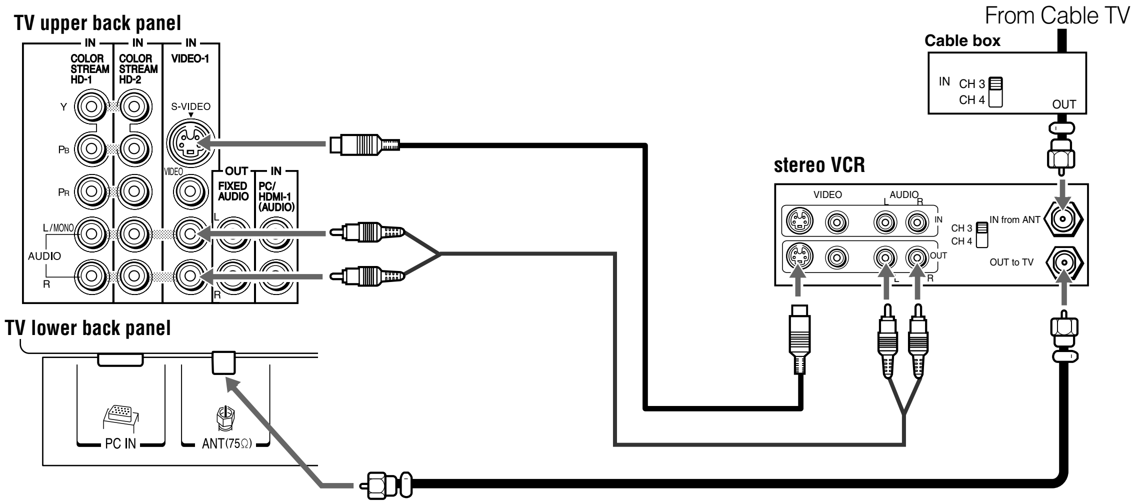
Turn ON the VCR. Select the **VIDEO 1** video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 24). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a VCR with S-video and a cable box

An S-video connection will provide better picture performance than a standard (composite) video cable.



You will need:

- coaxial cables
- S-video cable
  - *Do not connect both types of video cable to **VIDEO 1** at the same time or the picture performance will be unacceptable.*
- standard audio cables
  - *If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.*

Note: *When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.*

To view basic and premium Cable channels:

Turn OFF the VCR. Select the **ANT** video input source on the TV.* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

To view the VCR:

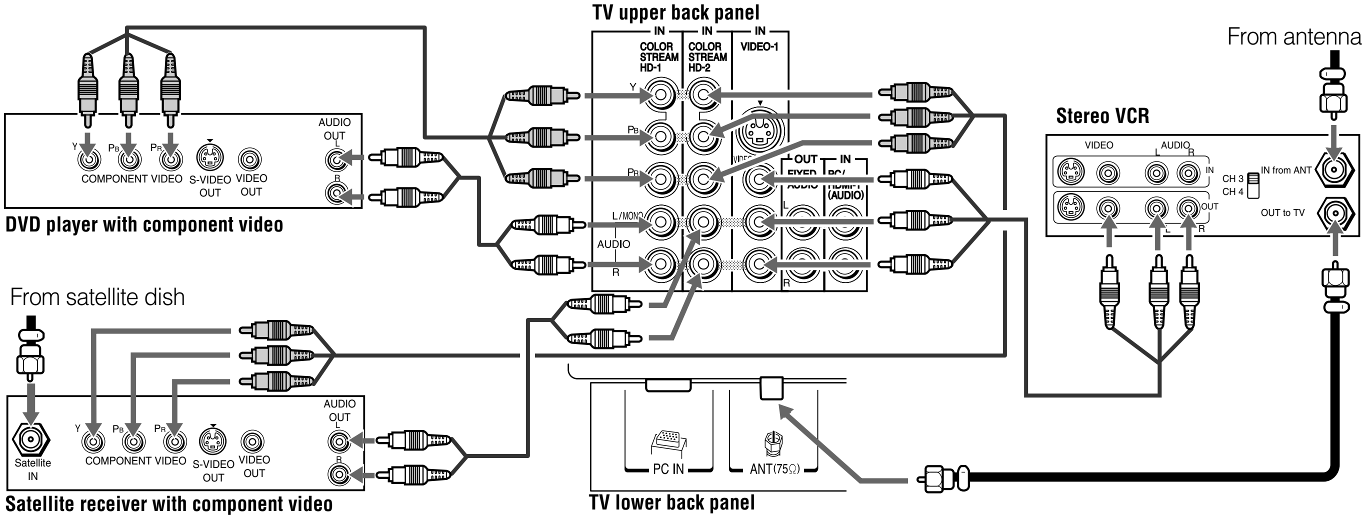
Turn ON the VCR. Select the **VIDEO 1** video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 24). To program the TV remote control to operate other devices, see Chapter 3.

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Connecting a DVD player with ColorStream® (component video), a VCR, and a satellite receiver

Your TV has two sets of ColorStream® (component video) inputs.



You will need:

- coaxial cables
- standard A/V cables
  - *For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to **VIDEO 1** at the same time or the picture performance will be unacceptable.*
  - *If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.*
- standard audio cables
- component video cables
  - *You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to either set of **ColorStream** terminals on the TV (**HD-1** or **HD-2**). The **ColorStream HD-1** and **HD-2** terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance (1080p is not supported).*
  - *If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to **VIDEO 2** on the side panel. If your DVD player has HDMI video, see page 20.*

To view antenna or Cable channels:

Select the **ANT** video input source on the TV.*

To view the DVD player:

Turn ON the DVD player. Select the **ColorStream HD-1** video input source on the TV.*

To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD-2** video input source on the TV.*

To view the VCR or view and record antenna channels:

Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the **VIDEO 1** video input source on the TV.*

To record a TV program while watching a DVD:

Turn ON the VCR. Tune the VCR to the channel to record. Select the **ColorStream HD-1** video input source on the TV* to view the DVD.

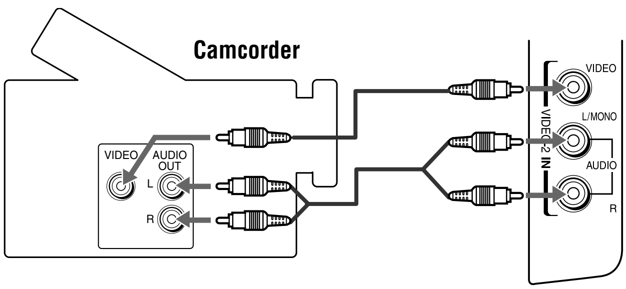
* To select the video input source, press **INPUT** on the remote control (☞ page 24). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a camcorder

You will need:

- standard A/V cables
  - *For better picture performance, if your camcorder has S-video, connect an S-video cable (plus the audio cables) to **VIDEO 1** on the TV back instead of the **VIDEO 2** on the TV right side panel.*



VIDEO 2 inputs on TV right side panel

To view the camcorder video:

Select the **VIDEO 2** video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 24). To program the TV remote control to operate other devices, see Chapter 3.

Connecting an HDMI™ or DVI device to the HDMI input

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-861B–compliant[1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

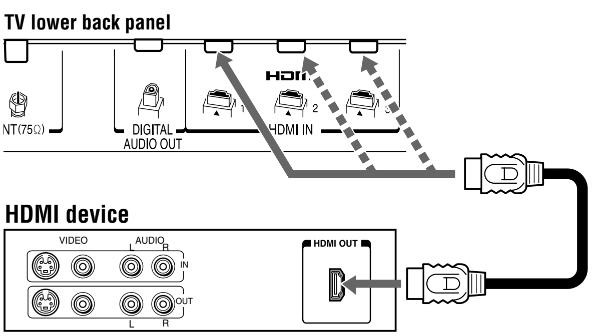
The HDMI input can accept and display VGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 72.

Supported Audio format: Linear PCM, sampling rate 32/44.1/48 kHz

Note: *To connect a PC to the HDMI input, see page 22.*

To connect an HDMI device, you will need:

- one HDMI cable (type A connector) per HDMI device
  - *For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI).*
  - *To display an 1080p/60Hz signal format, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly.*
  - *HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).*
  - *See "Setting the HDMI™ audio mode" (☞ page 35).*



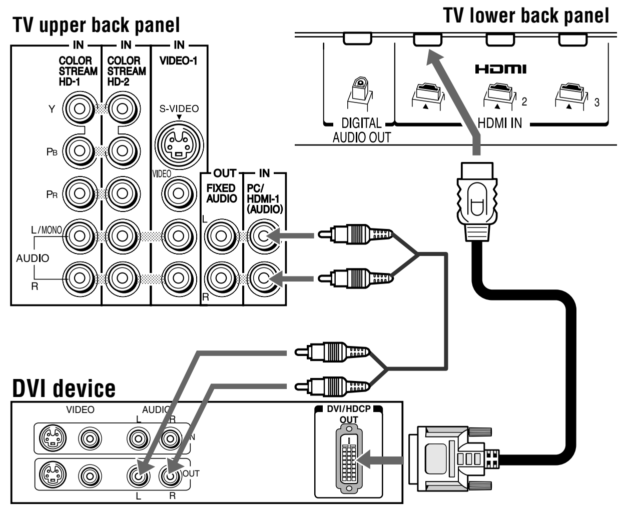
To view the HDMI device video:

Select the HDMI 1, HDMI 2, or HDMI 3 video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control (☞ page 24). To program the TV remote control to operate other devices, see Chapter 3.

To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable (HDMI type A connector) per DVI device
  - *For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).*
- one pair of standard analog audio cables per DVI device
  - *An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).*
  - *See "Setting the HDMI™ audio mode" (☞ page 35).*



Note: *To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:*

- *When turning on your electronic components, **turn on the TV first**, and then the HDMI or DVI device.*
- *When turning off your electronic components, **turn off the HDMI or DVI device first**, and then the TV.*

[1] EIA/CEA-861-861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

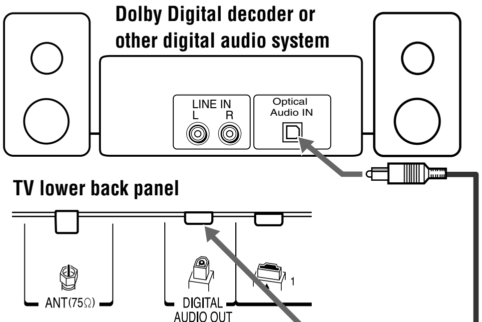
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Connecting a digital audio system

The TV's **DIGITAL AUDIO OUT** terminal outputs a Dolby®* Digital or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

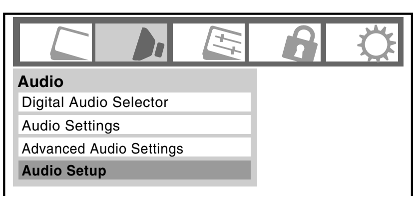
You will need:

- optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connector.)

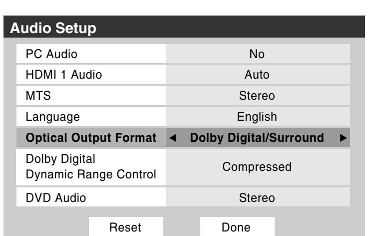


To control the audio:

1. Turn on the TV and the digital audio device.
2. Press MENU on the TV's remote control and open the **Audio** menu.
3. Highlight **Audio Setup** and press ENTER.



4. In the **Optical Output Format** field, select either **Dolby Digital/Surround** or **PCM**, depending on your device
(☞ "Selecting the optical audio output format" on page 49).



Note:
- *Some audio systems may not be compatible with Dolby Digital bitstream signals. Older audio systems that are not compatible with standard optical out signals may not work properly, creating a high noise level that may damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.*
- *The **DIGITAL AUDIO OUT** terminal may not output some digital audio sources because of copy restrictions.*

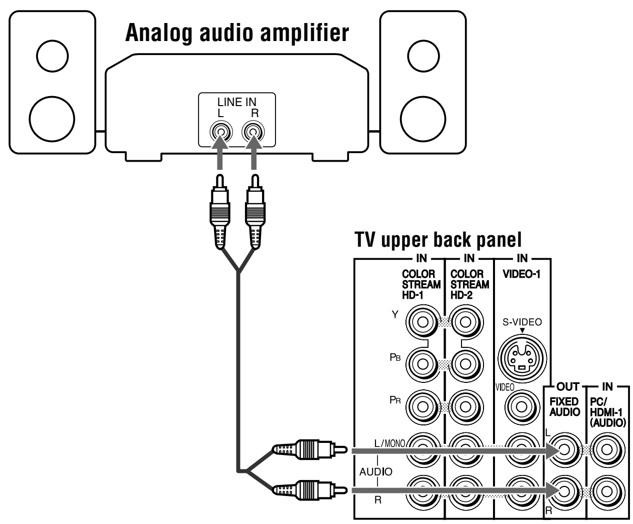
* Manufactured under license from Dolby Laboratories.
Dolby, and the double-D symbol are registered trademarks of Dolby Laboratories.

Connecting an audio system

This connection allows you to use external speakers with an external analog audio amplifier to adjust the sound level.

You will need:

- standard audio cables



To control the audio:

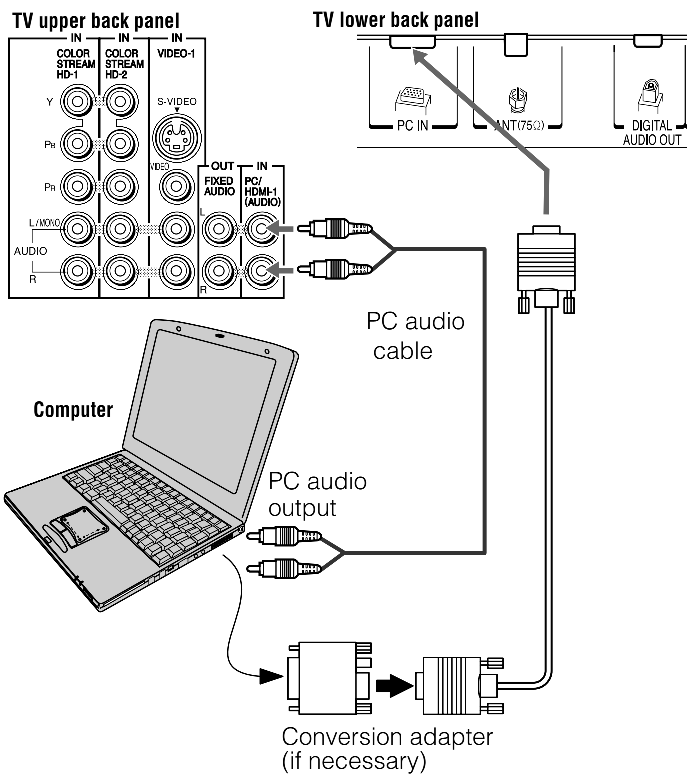
1. Turn on the TV and the stereo amplifier.
2. Minimize the sound volume from the TV's built-in speakers and control the volume level using the amplifier's remote control.

Connecting a personal computer (PC)

With either the PC IN or HDMI connection, you can watch your computer's display on the TV and hear the sound from the TV's speakers.

To connect a PC to the PC IN terminal on the TV:

When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.



- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The following signals can be displayed:

Format	Resolution	V. Frequency
VGA	640 × 480	60Hz
SVGA	800 × 600	60Hz
XGA	1024 × 768	60Hz

  Other formats or non-standard signals will not be displayed correctly.
- To display the optimum picture, use the PC setting feature (☞ "Using the PC settings feature" on page 54).

Note:
- *The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals (☞ page 55).*
- *Some PC models cannot be connected to this TV.*
- *An adapter is not needed for computers with a compatible mini D-sub15-pin terminal.*
- *Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.*
- Signal names for mini D-sub 15-pin connector

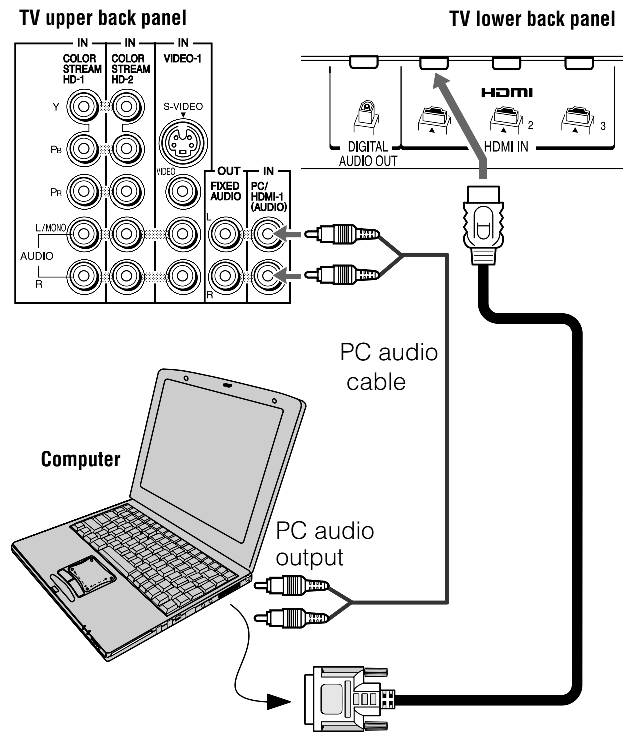
Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	B	8	Ground	13	H-sync
4	NC *	9	NC	14	V-sync
5	NC	10	Ground	15	NC

*NC=Not connected

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analog audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (☞ page 20).



The HDMI input can accept and display VGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 72.

Note:
- *The edges of the images may be hidden.*
- *If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).*

Preparing the remote control for use

Your TV remote control can operate your TV and many other devices such as cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

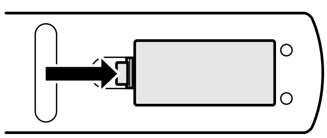
If you have a Toshiba device:
Your TV remote control is preprogrammed to operate most Toshiba devices (☞ page 27).

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:
You can program the TV remote control so it will operate the other device (☞ pages 25–29).

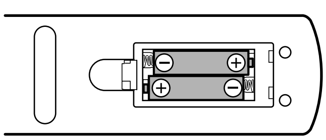
Installing the remote control batteries

1 Remove the battery cover from the back of the remote control.

Squeeze tab and lift cover.



2 Install two “AAA” size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



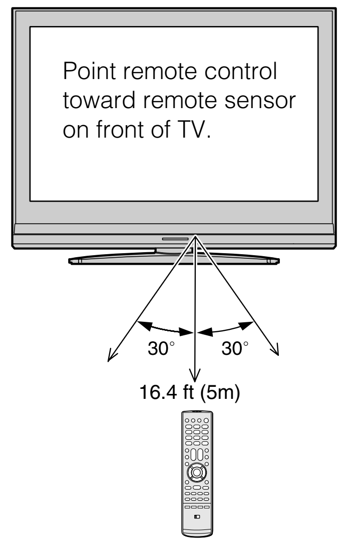
3 Reinsert the battery cover in the remote control until the tab snaps.

Caution: *Never throw batteries into a fire.*

Note:
- *Be sure to use AAA size batteries.*
- *Dispose of batteries in a designated disposal area.*
- *Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.*
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.*
- *When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.*
- *Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.*

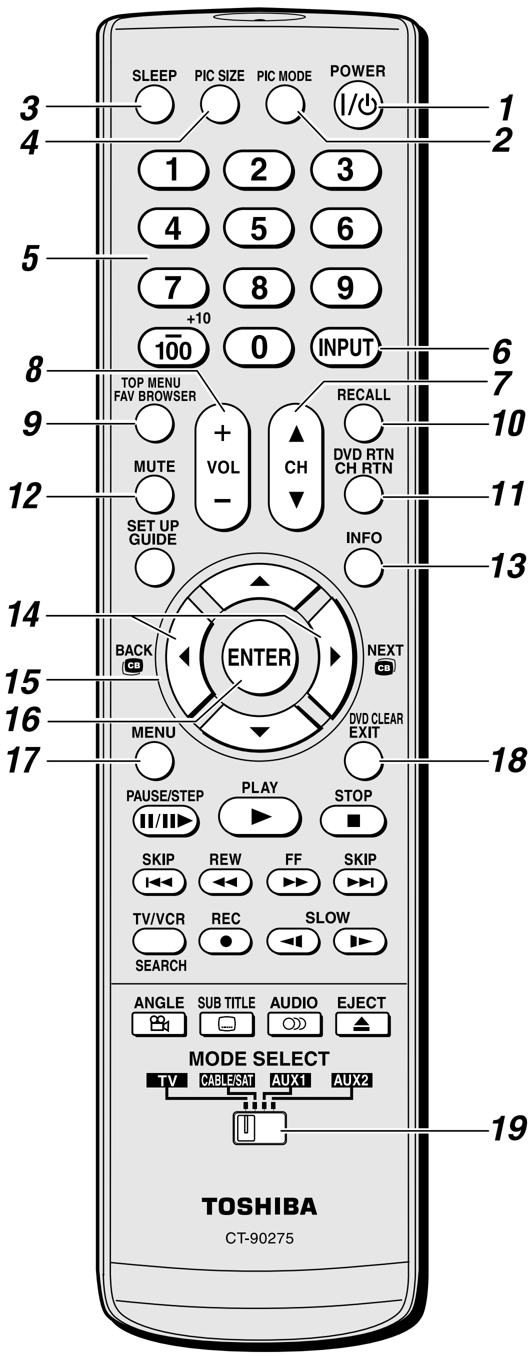
Remote control effective range

For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.



Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the remote control functional key chart (☞ page 26).



Note: *The error message "Not Available" may appear if you press a key for a function that is not available.*

1. **POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.
2. **PIC MODE** selects the picture mode (☞ page 45).
3. **SLEEP** accesses the sleep timer (☞ page 55).
4. **PIC SIZE** cycles through the picture sizes: **Natural**, **TheaterWide 1/2/3**, **Full**, **4:3 HD**, and **Native** (☞ page 42).
5. **Channel Numbers (0–9, –/100)** directly tune channels. The (100) button is used to tune digital channels (☞ page 41) or to edit the Favorites List (☞ page 39).
6. **INPUT** selects the video input source (☞ page 38).
7. **CH ▲▼** cycles through programmed channels when no menu is on-screen (☞ page 33).
8. **VOL + –** adjusts the volume level.
9. **FAV BROWSER** accesses the Favorites List in the Channel Brower™ (☞ page 39).
10. **RECALL** displays TV status information (☞ page 56).
11. **CH RTN** returns to the last viewed channel or source (☞ page 41).
12. **MUTE** reduces or turns off the sound (☞ page 47).
13. **INFO** displays TV status information as well as program details, when available. (☞ page 56).
14. BACK CB ◀ / NEXT CB ▶ While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the channel history (☞ page 40). (Also see "Arrow buttons.")
15. **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see BACK CB ◀ / NEXT CB ▶.)
16. **ENTER** activates highlighted items in the main menu system.
17. **MENU** accesses the main TV menu system (☞ pages 30 and 31).
18. **EXIT** closes on-screen menus.
19. **MODE SELECT switch** switches between TV, CABLE/SAT, AUX 1, and AUX 2 modes (☞ page 25). Set to "TV" to control the TV.

> You can also control the built-in DVD when the **MODE SELECT switch** on the remote control is in TV mode. For DVD operation the following buttons are used: **TOP MENU**, **DVD RTN, SET UP**, **DVD CLEAR**, **PAUSE**, **PLAY**, **STOP**, **SKIP**, **REW**, **FF**, **SEARCH**, **SLOW**, **ANGLE**, **SUB TITLE**, **AUDIO**, and **EJECT** (☞ Chapter 8).

Using the remote control to control your other devices

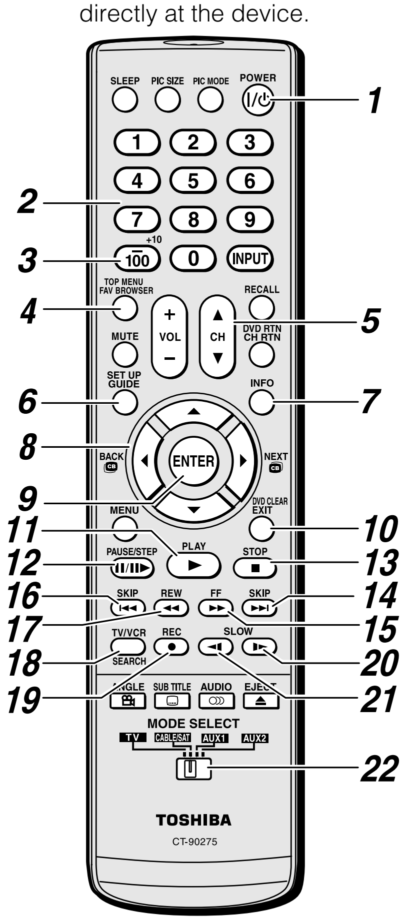
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (☞ pages 27–29).

To use your TV remote control to operate a:

- Cable converter box or satellite receiver, set the **MODE SELECT switch** to **CABLE/SAT**.
- VCR, set the **MODE SELECT switch** to **AUX 1**.
- DVD player or HTIB, set the **MODE SELECT switch** to **AUX 2**.

Note: *Even after the TV remote control is programmed, it may not operate certain features on any other devices. If this happens and you wish to use those features, you will need to use the device's original remote control.*

Point the remote control directly at the device.



1 **POWER** Turns the selected device on and off.

2 **Channel Numbers (0-9)** Press to directly access channels (as opposed to CH▲ CH▼).

3 **+10** Press to directly access DVD chapters higher than 10.

4 **TOP MENU** Accesses a DVD's top menu.

5 **CH ▲▼** For channels programmed into the channel memory (☞ page 41):
▲ selects the next higher channel.
▼ selects the next lower channel.

6 **GUIDE** Displays the channel guide in the CABLE/SAT mode.
SET UP Accesses a DVD's setup menu in the AUX mode.

7 **INFO** Displays TV status information on-screen.

8 **▲▼◀▶** Press to navigate DVD menus (may not work on some DVD players).

9 **ENTER** Required by some satellite receivers and DVD players to activate certain functions.

10 **DVD CLEAR** Press to reset the title and chapter number.

11 **PLAY** Begins playback of a tape or DVD.

12 **PAUSE** Press during play or record mode to pause the picture; press again to restart.

13 **STOP** Stops the tape or DVD.

14 **SKIP ▶▶|** Skips forward to locate later DVD chapters.

15 **FF** Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)

16 **SKIP |◀◀** Skips back to beginning of current DVD chapter, or locates previous chapters.

17 **REW** Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)

18 **TV/VCR** To view one program while recording another, press to select TV mode.

SEARCH selects a specific DVD chapter, title or time.

19 **REC** Starts tape recording.

20 **SLOW |▶** Slow-forwards the DVD.

21 **SLOW ◀|** Slow-reverses the DVD.

22 **MODE SELECT switch** Set to "TV" to control the TV; "CABLE/SAT" to control a cable converter box or satellite receiver; "AUX 1" to control a VCR; "AUX 2" to control a DVD player or HTIB.

Remote Control functional key chart

Note:
- *"---" = key does not send a signal in that remote control mode.*
- *"←TV" = key will affect the TV, even though the remote control is in another mode.*
- ** Not available for your TV.*

REMOTE CONTROL KEY	Toshiba TV/ Built-in DVD	CABLE	SAT (satellite)	AUX 1 (VCR)	AUX 2 (DVD or HTIB)
POWER	Power	Power	Power	Power	Power
SLEEP	Sleep timer	← TV	← TV	← TV	← TV
PIC SIZE	Picture size	← TV	← TV	← TV	← TV
PIC MODE	PIC MODE	← TV	← TV	← TV	← TV
1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
100/–/+10	– (sub CH)	---	– (sub CH)	100	+10
INPUT	TV/Video select	← TV	← TV	← TV	← TV
FAV BROWSER/ TOP MENU	FAV BROWSER DVD TOP Menu	---	---	---	Top Menu
MUTE	Sound mute	← TV	← TV	← TV	← TV
SET UP/GUIDE	DVD setup	---	SAT Guide	---	Setup
VOL + –	Volume up/down	← TV	← TV	← TV	← TV
CH▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down	---
RECALL	RECALL	← TV	← TV	← TV	← TV
CH RTN/DVD RTN	Previous channel DVD previous menu	---	---	---	DVD Return
INFO	Info	---	Info	---	Display
ENTER	Enter	---	Select, Enter	---	Enter
▲▼	Menu up/down	---	Menu up/down	---	Menu up/down
◀ BACK CB	Menu left/ Channel Browser™	---	Menu left	---	Menu left
▶ NEXT CB	Menu right/ Channel Browser™	---	Menu right	---	Menu right
MENU	Menu	---	Action Menu	---	DVD Menu
EXIT/DVD CLEAR	Exit DVD clear	---	Exit	---	DVD Clear
PAUSE/STEP	Pause	---	---	Pause	Pause
PLAY	Play	---	---	Play	Play
STOP	Stop	---	---	Stop	Stop
SKIP ⏮	Skip REV	---	---	---	Skip REV
SKIP ⏭	Skip FWD	---	---	---	Skip FWD
REW	Rewind	---	---	Rewind	Rewind
FF	Fast FWD	---	---	Fast FWD	Fast FWD
TV/VCR/ SEARCH	DVD search	---	---	TV/VCR	DVD search
REC	REC MENU*	---	---	Record (2 click)	---
SLOW –	SLOW REW	---	---	---	---
SLOW +	SLOW FWD	---	---	---	---
ANGLE	Angle	---	---	---	DVD Angle
SUB TITLE	Sub title	---	---	---	DVD Sub title
AUDIO	Audio	---	---	---	DVD Audio
EJECT	Eject	---	---	---	DVD Eject

Programming the remote control to control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 25.

1. In the remote control code table (☞ page 28), find the code for your device. If more than one code is listed, try each one separately until you find one that works.
2. Set the **MODE SELECT switch** to the type of device you are programming the remote control to operate — CABLE/SAT (for a cable converter box or satellite receiver), AUX 1 (for a VCR or TV/VCR combo), or AUX 2 (for a DVD player or HTIB [home theater in a box]).
3. While holding down RECALL, press the Channel Number buttons to enter the 3-digit code for your device.
4. To test the code, turn on the device, point the remote control at it, and press POWER. See notes below.
   - If the correct code was entered, the device will turn off.
   - If the device does not respond, repeat steps 1–4 using another code.
   - If the device does not respond to another code, you will need to use the remote control that came with the device.
5. Remember to set the **MODE SELECT switch** back to "TV" to control the TV.
6. For future reference, write down the code(s) you used:

DEVICE	CODE	DEVICE	CODE

Note:
- *In addition to POWER, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.*
- *Every time you change the batteries, you will need to reprogram the remote control.*
- *Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.*

Remote control codes

In some cases you may not be able to operate your device with the TV remote control. Your other device may use a code that is not recognized by the TV remote control. If this happens, use the device's remote control.

Cable converter box

ABC	061, 062, 063, 082, 084, 087, 092, 096, 098
Archer	065, 092, 097, 099
Cableview	064, 094
Century	092
Citizen	090, 092, 097
Contec	083, 085, 086, 088, 093, 098
Diamond	093
GE	061, 062
Gemini	069, 070, 094
Hamlin	093
Hitachi	062, 095, 096
Jasco	097
Motorola/GI/Jerrold	062, 069, 071, 082, 086, 089, 096, 107
Magnavox	072, 096
Memorex	092, 104
Multi Canal	090
Novavision	101
Panasonic	081, 083, 085
Philco	087
Philips	066, 067, 068, 070, 072, 073, 074, 075, 092
Pioneer	076, 077
Proscan	061, 062
Radio Shack	092, 097, 099
RCA	064, 081
Realistic	065
Recoton	102
Samsung	077, 090
Scientific Atlanta	063, 078, 079, 080, 088, 098, 101, 105
Sears	095
Signature	062
Signature 2000	096
Sprucer	081, 085
Starcom	069, 082, 087, 096, 103, 104
Stargate	069, 090
Sylvania	095, 100
TeleView	090
Texscan	100
Tocom	071, 084, 085
U. S. Electronics	087, 096, 098
United Cable	082
Universal	065, 092, 097, 099, 102, 103
Wards	096

Satellite receiver

Alphastar	038, 059
Chaparral	034
DISH Network	057
Drake	020, 040, 044, 046, 050, 053
Echostar	018, 041, 051
Express Vu	057
Fujitsu	027
GE	008, 009, 013
General Instruments	010, 011, 012, 022, 023, 031, 049
Hitachi	033
Hughes	033
Hughes Network Systems	019
Intersat	048
Janeil	027
JVC	017, 057
Kenwood	029
Magnavox	060
Optimus	058
Pansat	036, 052
Primestar	015, 042
Proscan	008, 009, 013
Radio Shack	022, 023, 030
RCA	008, 009, 013, 016
Realistic	030
Samsung	059
Sony	014, 055
Star Choice	057, 106
Star Trak	025, 026, 037, 054
STS	024
Toshiba	000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056
Uniden	021, 028, 030, 032, 035, 039, 043, 045, 047, 058
Zenith	027

TV/VCR Combo

Action	078
GE	059, 062
Goldstar	065
Panasonic	065
Precision	078
Quasar	065
Realistic	079
Sony	074
Toshiba	057
Zenith	065
Totevision	009, 010, 065

DVD/VCR Combo

Go Video	DVD=087, VCR=081
JVC	DVD=088, VCR=082
RCA	DVD=089, VCR=083
Samsung	DVD=090, VCR=084
Sanyo	DVD=091, VCR=085
Zenith	DVD=092, VCR=086

DVD player

Aiwa	006, 015
Apex	016, 017
BOSE	097
Broksonic	018
Clarion	019
Classic	020
Daewoo	021
Denon	022, 023, 024, 025
Emerson	026, 027
Fisher	028
Funai	027
GE	001, 029, 030
Go Video	087
GPX	031
Hitachi	005, 032, 033, 034, 035
JVC	003, 007, 036, 042, 088
Kenwood	037
Konka	008, 009
Magnavox	004, 038
Memorex	039
Mintek	040
NAD	026
Nakamichi	041
Norcent	043
Onkyo	044
Oritron	058
Panasonic	010, 045, 046, 047, 048, 049, 050
Philips	004, 051
Pioneer	052, 053, 054, 055
Proscan	001, 056
Qwestar	057, 058
RCA	001, 002, 059, 089
Sampo	060
Samsung	061, 062, 086, 090
Sansui	073
Sanyo	063, 091
Sharp	064, 067
Sherwood	074
Sony	011, 012, 065, 066, 068, 069, 070
Sylvania	027
Teac	071
Technics	072
Techwood	075
Toshiba	000, 013, 076, 077, 078
Yamaha	079, 080, 081
Zenith	014, 082, 092

Portable DVD player

Aiwa	093
Audiovox	094, 095
Panasonic	024, 096, 099
RCA	098

VCR

Admiral	049
Aiko	019
Aiwa	018
Akai	003, 004, 037, 038, 039, 058, 069
Audiovox	010
Bell & Howell	007, 068
Broksonic	008, 017
Calix	010
Carver	026
CCE	019
Citizen	009, 010, 011, 012, 013, 014, 015, 019, 057, 073
Colortyme	005

Craig	009, 010, 016, 061, 065, 079
Curtis Mathes	001, 005, 009, 012, 014, 040, 048, 053, 056, 057
Daewoo	011, 013, 015, 017, 018, 019, 057, 078
Daytron	078
Denon	063
Dimensia	001, 048
Electrohome	010, 020, 065
Emerson	003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072
Fisher	007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079
Fuji	004, 041
Funai	018, 073
Garrard	018
GE	001, 002, 009, 040, 042, 048, 056
Go Video	056, 059, 061, 081
Goldstar	005, 010, 014, 054, 056, 065, 067
Gradiente	018, 065
Harman Kardon	005
Hitachi	024, 025, 035, 037, 042, 063, 070, 080
JBL	076
JC Penney	005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065
Jensen	024, 025, 037, 050
JVC	005, 006, 007, 014, 037, 043, 055, 062, 063, 068, 082
Kenwood	005, 006, 007, 012, 014, 037, 043, 050, 053, 068, 071
Kodak	010
LG	010
Lloyds	053, 073, 079
Logik	061
LXI	010
Magnasonic	061, 065, 078
Magnavox	026, 027, 034, 044, 057, 061, 072
Marantz	005, 006, 007, 012, 014, 026, 053, 067
Memorex	007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079
MGA	020, 028, 039
MGN	056
Minolta	024, 025, 035, 063
Mitsubishi	020, 024, 025, 028, 039, 043, 065
Montgomery Ward	049
Motorola	049
MTC	009, 046, 061
Multitech	009, 012, 018
NEC	005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070
Nikko	010
Noblex	009
Optimus	010, 049, 065
Optonica	031
Orion	054, 057, 062, 065, 068, 072
Panasonic	036, 045, 046, 057, 061, 072, 079
Pentax	012, 024, 025, 035, 042, 053, 063
Pentex Research	014
Philco	026, 027, 063
Philips	026, 031, 044, 057
Pioneer	006, 024, 043, 055
Portland	012, 013, 015
Proscan	001, 002, 048
Proton	061
Quasar	045
Radio Shack	010, 031, 065
Radio Shack/Realistic	007, 009, 010, 016, 018, 020, 021, 022, 031, 049
Radix	010
RCA	001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071, 083
Realistic	007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079
Ricoh	047
Runco	034
Samsung	009, 011, 038, 056, 073, 084
Sansui	006, 037, 043, 061
Sanyo	007, 009, 016, 054, 064, 068, 071, 075, 079, 085
Scott	008, 011, 017, 028, 030, 057, 065, 072
Sears	007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079
Sharp	013, 020, 031, 049, 051, 060, 066
Shintom	004, 025, 032, 061
Signature	049
Signature 2000	075
Singer	047, 061
Sony	004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080
STS	035
Sylvania	018, 026, 027, 028, 044, 072
Symphonic	018, 050, 051, 053, 073, 079
Tandy	007
Tashiko	010
Tatung	037
Teac	018, 029, 037
Technics	036
Teknika	010, 018, 065
Toshiba	000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079
Totevision	009, 010, 065
Unitec	073
Unitech	009
Vector Research	005, 006, 011, 012, 053
Video Concepts	005, 006, 011, 012, 039, 053
Wards	009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079
White Westinghouse	073
XR-1000	018
Yamaha	005, 006, 007, 014, 037, 053
Zenith	004, 032, 034, 041, 047, 069, 086

HTIB

Lasonic	083
Panasonic	084
Venturer	085

Main menu layout

The tables below and on the next page provide a quick overview of your TV’s menu system.
To open the main menus (illustrated below), press MENU on the remote control or TV control panel.

Icon	Item	Option
Video	Mode	→ Sports/Standard/Movie/Preference
	Picture Settings	→ [Opens the Picture Settings menu]
	Noise Reduction	→ [Opens the Noise Reduction menu]
	Game Mode	→ On/Off
	Theater Settings	→ [Opens the Theater Settings menu]
Audio	Digital Audio Selector	→ [Launches the temporary Audio Selector]
	Audio Settings	→ [Opens the Audio Settings menu]
	Advanced Audio Settings	→ [Opens the Advanced Audio Settings menu]
	Audio Setup	→ [Opens the Audio Setup menu]
Preferences	CC Selector	→ [Launches the temporary CC Selector]
	Base CC Mode	→ Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4
	Digital CC Settings	→ [Opens the Digital CC Setup menu]
	Input Labeling	→ [Opens the Input Labeling menu]
	Channel Labeling	→ [Opens the Channel Labeling menu]
	Menu Language	→ English/French/Spanish
	Channel Browser Setup	→ [Opens the Channel Browser Setup menu]
Locks	Enable Rating Blocking	→ Off/On
	Edit Rating Limits	→ [Opens the Edit Rating Limits menu]
	Channels Block	→ [Opens the Channels block menu]
	Input Lock	→ Off/Video/Video+
	Front Panel Lock	→ Off/On
	New PIN Code	→ [Opens the New PIN Code entry screen]
Setup	Installation	→ [Opens the Installation menu (☞ page 31)]
	Sleep Timer	→ [Opens the Sleep Timer menu]
	PC Settings	→ [Opens the PC Settings menu]

Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.

To open the **Installation** menu (illustrated below), press MENU on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press ENTER.

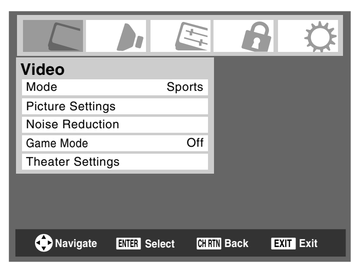
Icon		Item	Option
Press MENU, open the **Setup** menu, and then open the **Installation** sub-menu.	**Terrestrial**	Input Configuration	→ [Opens the Input Configuration menu]
		Channel Program	→ [Start] → [Scans for new channels on ANT]
		Channel Add/Delete	→ [Opens the Channel Add/Delete menu]
		Signal Meter	→ [Opens the Signal Meter menu]
	System Status	System Information	→ [Opens the System Information screen]

Navigating the menu system

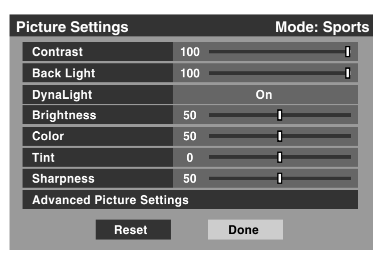
You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press MENU to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (▲▼◀▶) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press ENTER to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press EXIT.

Note:
- *The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.*



- *The Video sub-menu appears with a black background, which looks different from other menus.*

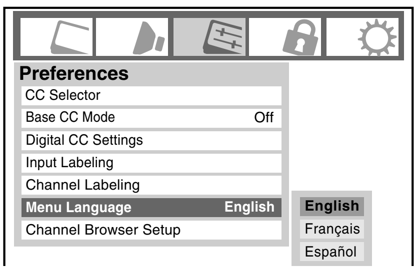


Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

To select the menu language:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Menu Language** and press ▶.
3. Press ▲ or ▼ to select your preferred menu language and press ENTER.

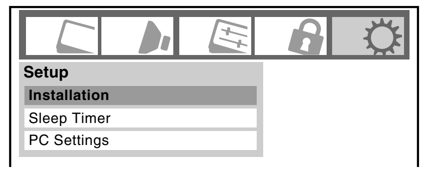


4. Press EXIT to close the **Preferences** menu.

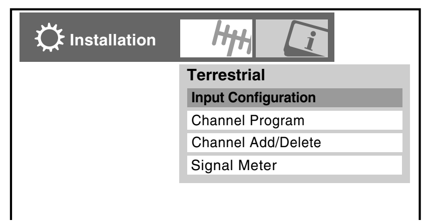
Configuring the antenna input source for the ANT terminal

To configure the ANT input source:

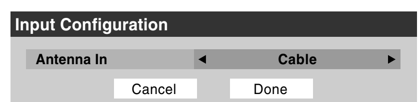
1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.



3. (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press ENTER.



4. Press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT** input on the TV.



5. To save your new settings, highlight **Done** and press ENTER. To revert to your original settings, highlight **Cancel** and press ENTER.

Programming channels into the TV's channel memory

When you press CH▲ or CH▼ on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.

Follow the steps below to program channels into the TV's channel memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

Note:

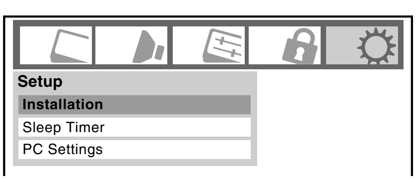
- *You must configure the antenna input source before programming channels (☞ page 32).*
- *If the Antenna input signal type is set to **Cable**, the automatic channel programming process erases channels that were previously programmed into the TV's memory.*
- *If the Antenna input signal type is set to **Antenna**, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV's memory.) To remove an Antenna source channel from the memory, you must manually delete it.*
- *To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.*
- *Programming channels when the antenna input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.*

To program channels automatically:

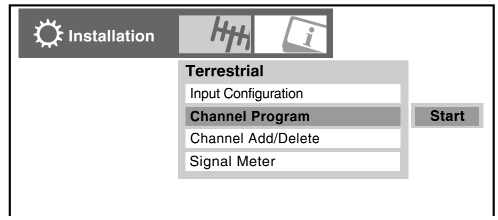
1 Configure the antenna input source, if you have not already done so (☞ page 32).

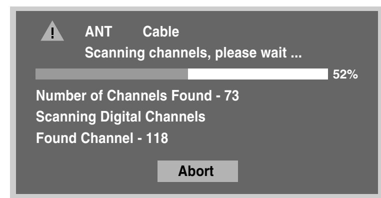
2 Press MENU and open the **Setup** menu.

3 Highlight **Installation** and press ENTER.



4 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program** to bring up the **Start**, and press ENTER again to begin channel programming.





The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message "Scanning channels, please wait" appears (as shown above).

5 To cancel channel programming, press EXIT on the remote control (or highlight **Abort** in the on-screen display and press ENTER).

When channel programming is finished, press CH▲ or CH▼ to view the programmed channels.

Manually adding and deleting channels in the channel memory

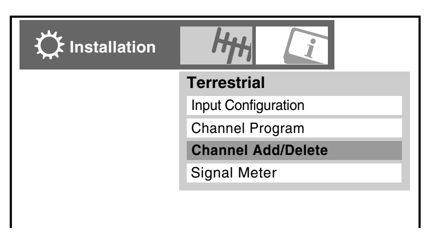
After automatically programming channels into the channel memory, you can manually add or delete individual channels.

To add or delete channels in the channel memory:

1 Press MENU and open the **Setup** menu.

2 Highlight **Installation** and press ENTER.

3 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Add/Delete**, and then press ENTER.



(continued)

To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press to check the box.

To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash () on the remote control to enter the channel number (for example, 56–1).

If the channel is found, the number will be added to the list and the box will be checked.

If the channel is not found, a message will appear.

To remove a channel from the channel memory:

Highlight the checked box next to the channel number you want to remove, and then press to uncheck the box.

To save your new settings:

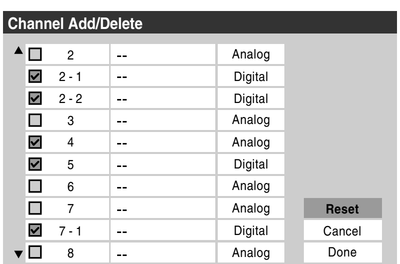
Highlight **Done** and press .

To revert to your original settings:

Highlight **Cancel** and press before saving.

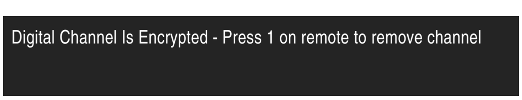
To remove all channels from the channel memory:

Highlight **Reset** and press , and then highlight **Done** and press .



To remove encrypted channels from the channel memory:

If an encrypted channel is accidentally added to the channel list by programming channels, you can remove the unwanted encrypted (non-viewable) channel while you are channel surfing. When you tune to an encrypted channel, the following message will appear.



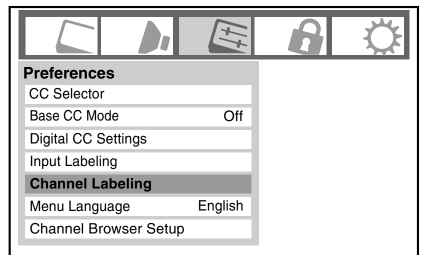
Press “1” button while the message is on the screen to remove the unnecessary channel from the channel list.

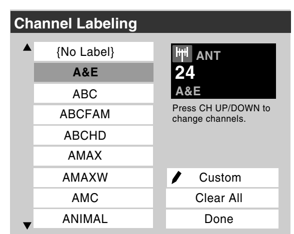
Labeling channels

A list of common channel labels (logos) for various channels (ABC, CBS, etc.) will be programmed into the TV. You will be able to view and assign these logos from the **Channel Labeling** window. If the desired channel label is not provided in the list, you will be able to manually enter/edit labels using the software keyboard.

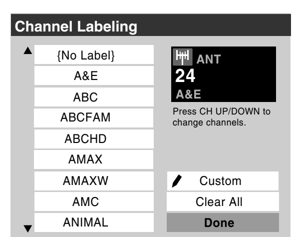
To assign channel labels:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Channel Labeling** and press .
   The **Channel Labeling** window opens.





3. Press or to select the channel you want to label.
4. Press ▲▼◀▶ to highlight the desired channel label and press .
5. Repeat steps 3 and 4 for other channels.
6. To save your settings, highlight **Done** and press .

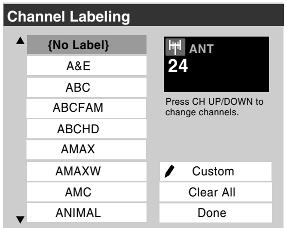


The maximum number of labels that can be stored is 128.

To remove channel labels:

1. Open the **Channel Labeling** window.
2. Press or to select the channel for which you want to remove the label.

3 Press ▲▼◀▶ to highlight **No Label** and press ENTER.



4 Repeat steps 2 and 3 for other channels.

5 To save your settings, highlight **Done** and press ENTER.

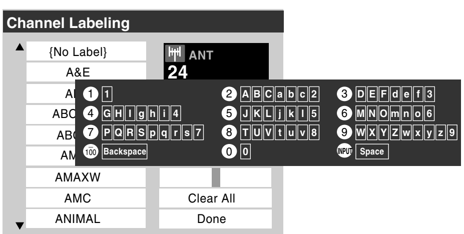
If the desired channel label is not available from the list of presets, you can create a custom label.

To create and assign a custom label:

1 Open the **Channel Labeling** window.

2 Press CH▲ or CH▼ to select a channel you want to label.

3 Press ▲▼ ▶ to highlight **Custom** and press ENTER.
The software keyboard will appear.



4 Repeatedly press the corresponding key on the remote control to highlight the desired character on the on-screen software keyboard.

5 The highlighted character is entered after you either press a different key, press ▶ key, or after a two-second pause.

6 Repeat steps 4 and 5 until you have entered all desired text.

7 When finished, press ENTER.

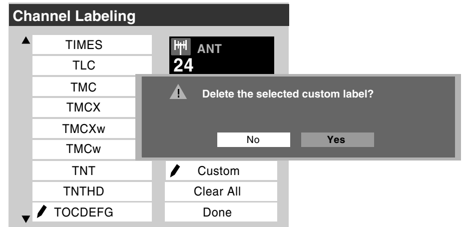
8 (New labels will be added to the list in alphabetical order and marked with an icon ✎ to indicate that they are custom.) Highlight the new custom label and press ENTER to assign. Assigned channel labels will be displayed in the banner, **Channel Add/Delete** window, and **Channels Block** window.

To delete the custom label:

1 Open the **Channel Labeling** window.

2 Highlight the label to be deleted and press 100.

3 Highlight **Yes** from the deletion confirmation window and press ENTER.



4 Highlight **Done** and press ENTER to save changes, and go back to the **Channel Labeling** window.

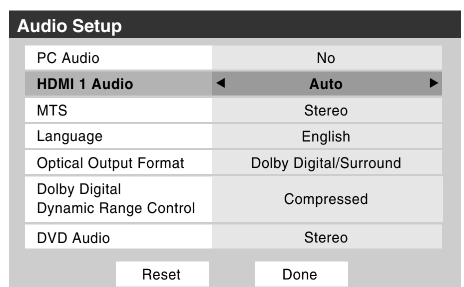
Setting the HDMI™ audio mode

To set the HDMI audio mode:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Setup** and press ENTER.

3 Press ▲ or ▼ to select **HDMI 1 Audio** and then press ◀ or ▶ to select the HDMI 1 audio mode (**Auto**, **Digital**, or **Analog**). (**Auto** is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (☞ page 20).



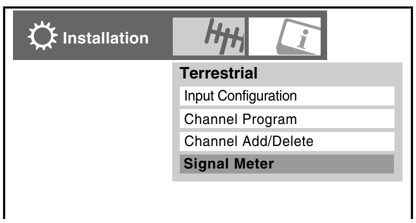
Note: *Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "**No**," the **HDMI 1 Audio** setting changes to "**Auto**." If **PC Audio** is set to "**Yes**," the **HDMI 1 Audio** setting is set to "**Digital**" and is grayed out in the menu. (Also see item 4 on page 14 and "Setting the PC Audio" on page 55.)*

Viewing the digital signal meter

You can view the digital signal meter in the ANT digital TV input source only.

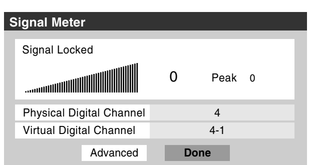
To view the digital signal meter:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear, as shown below. Open the **Terrestrial** menu, highlight **Signal Meter**, and press ENTER.



4. Press ▲▼◀▶ to select the antenna input and digital channel whose signal you want to check.

   Note: *The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.*



To close the screen and return to the Terrestrial menu:

Highlight **Done** and press ENTER.

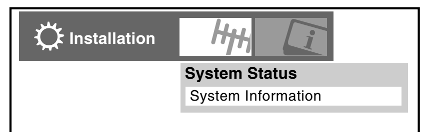
To return to normal viewing:

Press EXIT.

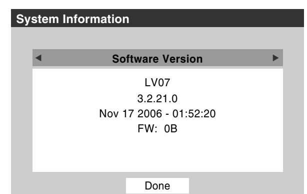
Viewing the system status

To view the system status:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER.
3. A new set of Installation menu icons will appear, as shown below. Open the **System Status** menu, highlight **System Information**, and press ENTER.



4. Press ◀▶ to scroll through the menu bar to select the **Software Version** and view the related information.



To close the screen and return to the Installation menu:

Highlight **Done** and press ENTER.

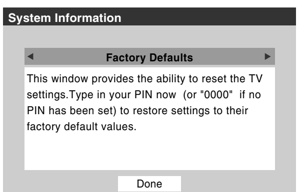
To return to normal viewing:

Press EXIT.

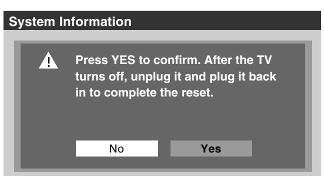
Reset Factory Defaults

To reset all settings and channels to their factory default values:

1. Press MENU and open the **Setup** menu.
2. Highlight **Installation** and press ENTER. A new set of Installation menu icons will appear.
3. Open the **System Status** menu, highlight **System Information**, and press ENTER.
4. Press ◀▶ to scroll through the menu bar to select **Factory Defaults**.



5. Enter your PIN code (or 0000 if no PIN code has been set).
6. Highlight **Yes** and press ENTER. The TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.



To cancel the reset:

Highlight **No** and press ENTER.

Selecting the video input source to view

To select the video input source to view:

1 Press (INPUT) on the remote control or TV control panel.

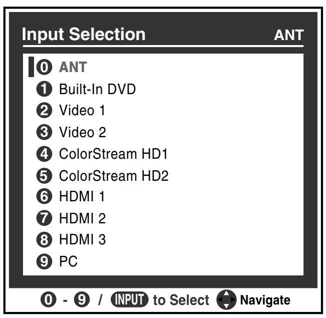
2 And then either:

a) Press 0–9; or

b) Repeatedly press ▲▼ on the remote control and then press (ENTER) to change the input; or

c) Repeatedly press (INPUT) on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the **Input Selection** screen.



Note:

- *You can label the video input sources according to the specific devices you have connected to the TV (☞ "Labeling the video input sources" at right).*
- *Sources can also be "hidden" (☞ "Labeling the video input sources" at right).*
- *"No Video Signal" will appear randomly on the screen if no signal is received in video input mode.*

Labeling the video input sources

You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- – – (*default label*)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HD DVD
- Laser Disk
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the **Input Selection** screen)

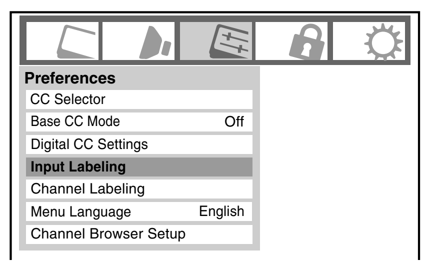
Note: *If you select Built-In DVD or PC in the Input Selection screen, you can choose only "– –" or "Hide" as the label.*

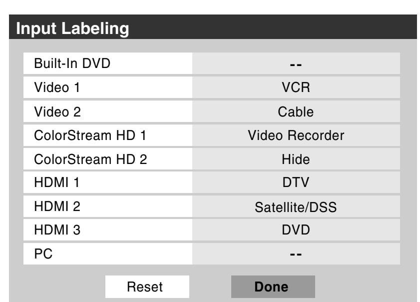
To label the video input sources:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Input Labeling** and press (ENTER).

3 Press ▲ or ▼ to highlight the video source you want to label.





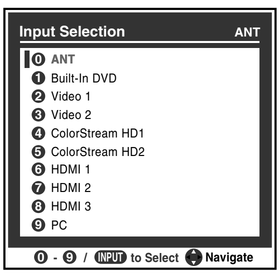
4 Press ◀ or ▶ to select the desired label for that input source. If a particular input is not used, you can select **Hide** as the label, which will cause that input to be "grayed out" in the Input Selection screen and skipped over when you press INPUT on the remote control.

5 To save the new input labels, highlight **Done** and press ENTER.

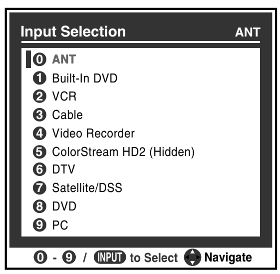
To revert to the factory default labels, highlight **Reset** and press ENTER.

Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, a DTV set-top box to HDMI 1, a satellite/DSS set-top box to HDMI 2, and a DVD player to HDMI 3. Also note that the ColorStream HD2 input is labeled "Hidden," which means that input will be skipped over when INPUT is pressed.



Input Selection screen with no inputs labeled.



Input Selection screen with all inputs labeled except input 5, which has been hidden.

To clear the input labels:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Input Labeling** and press ENTER.

3 Highlight **Reset** and press ENTER.

Tuning channels

Tuning channels using the Channel Browser™

The Channel Browser™ provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see "Favorites Browser," below).
- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser™) or Select mode (to surf over channels in the Channel Browser™ before you select one to tune).
- Quickly change inputs from the Inputs List.

Favorites Browser

The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser™.

To add a favorite channel/input:

1 Tune to the channel or input.

2 Press and hold FAV BROWSER for 3 seconds.

***Note:** Additions are added to the beginning of the Favorites list on the left side of the Channel Browser™.*

To delete a favorite channel/input:

1 Press FAV BROWSER to open the Favorites browser list.

2 Highlight the channel or input to delete by pressing BACK CB ◀ or NEXT CB ▶.

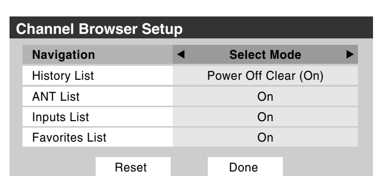
3 Press and hold 100 for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser™:

1 Press MENU and open the **Preferences** menu.

2 Highlight **Channel Browser Setup** and press ENTER.

3 Press ▲ to highlight **Navigation**, and then press ◀ or ▶ to select either **Browse Mode** or **Select Mode**.



(continued)

4 Press ▼ to highlight **History List**, and then press ◀ or ▶ to select the setting you prefer: either **Power Off Clear (On)**, **On**, or **Off**.

__Note:__ When __History List__ is set to __On__, the channels and inputs stored in the list will be saved every power on/off cycle. When __History List__ is set to __Power Off Clear (On)__, the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.

5 Press ▼ to highlight **ANT List**, and then press ◀ or ▶ to select **On** or **Off**.

6 Press ▼ to highlight **Inputs List**, and then press ◀ or ▶ to select **On** or **Off**.

7 Press ▼ to highlight **Favorites List**, then press ◀ or ▶ to select **On** or **Off**.

8 To save your entries, highlight **Done** and press (ENTER).

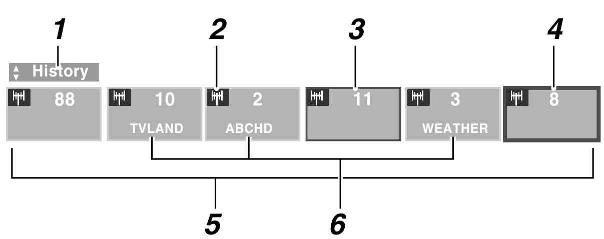
To return to factory defaults, highlight **Reset** and press (ENTER).

To open the Channel Browser™:

- Press BACK CB ◀ or NEXT CB ▶ on the remote control.
- Press BACK CB ◀ to surf backward through the previously tuned 32 channels in the History list, the channels in the ANT channel list, the inputs in the Inputs list, or the favorite channels/ inputs in Favorites list.
- Press NEXT CB ▶ to surf forward through the channel History, the ANT channel list, the Inputs list, or the favorite channels/ inputs in Favorites list.

__Note:__ To access the Channel Browser™ while on the Built-In DVD input, first press RECALL then press BACK CB ◀, NEXT CB ▶ or FAV BROWSER.

Elements of the Channel Browser™



1 Current list (**History**, **ANT**, **Inputs**, or **Favorites**)

2 Input type

3 Channel or input currently being viewed

4 Channel or input that is currently highlighted in the browser

5 Channels stored in the History List

6 Channel labels

To toggle among the available lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT**, **Inputs**, and **Favorites**.

Note:

- *The Channel Browser™ opens in __History List__ by default. Once another list has been selected, the Channel Browser™ will open in the last selected list.*
- *If all lists are turned off, pressing BACK CB ◀, NEXT CB ▶, or FAV BROWSER will not display the Channel Browser™. If __Favorites List__ is turned off, FAV BROWSER will have no effect.*
- *Pressing FAV BROWSER will bring up the Channel Browser™ Favorites list regardless of the last selected list in the Channel Browser™.*

To tune to a channel or input in Browse mode:

1 While watching TV, press BACK CB ◀ or NEXT CB ▶ to open the Channel Browser™ and surf back to a previous item or surf forward to the next item in the list.

In **Browse** mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.

2 Press EXIT to close the Channel Browser™.

To tune to a channel or input in Select mode:

1 While watching TV, press BACK CB ◀ or NEXT CB ▶ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.

In **Select** mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press (ENTER) to tune the TV to the highlighted item.

2 Press (ENTER) to tune the TV to the highlighted item.

3 Press EXIT to close the Channel Browser™.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel Browser™ adds it to the History List and displays it on the "right side" of the Channel Browser™. Previously tuned channels/inputs are "shifted" to the left, eventually moving off the left side. Press BACK CB ◀ to surf backward through the previously tuned channels/ inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser™.

The Channel Browser™ will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using CH ▲ or CH ▼ on the remote control.

__Note:__ Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.

Clearing channels from the History List:

- Reconfiguring the **ANT** input will clear the History List.

  Note: *See page 32 for details on configuring the antenna input.*
- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- If **History List** in the **Channel Browser Setup** is set to "**Power Off Clear (On)**," turning off the TV will clear the History List.

Tuning to the next programmed channel

To tune to the next programmed channel:

Press CH▲ or CH▼ on the remote control or TV control panel.

Note: *This feature will not work unless you program channels into the TV's channel memory (☞ page 33).*

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

Press the Channel Number (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5.

Tuning digital channels:

Press the Channel Number (0–9) on the remote control, followed by the dash (100) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, –, 1.

Note: *If a digital channel is not programmed—either through the automatic channel scan (☞ page 33) or the channel add/ delete function (☞ page 33)—you will have to tune the RF channel using the Channel Number and dash (100) on the remote control.*

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (and the dash (100) button if selecting a digital channel).
3. Press CH RTN on the remote control. The previous channel will display. Each time you press CH RTN, the TV will switch back and forth between the last two channels that were tuned.

   Note: *If you press CH RTN from a non-antenna input, the TV will return to the last-viewed input.*

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily "memorizes" one channel to the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN. To memorize a channel to the CH RTN button:

1. Tune the TV to the channel you want to program into the CH RTN button.
2. Press and hold CH RTN for about 2 seconds until the message "Channel Memorized" appears on-screen. The channel has been programmed to the CH RTN button.
3. You can then change channels repeatedly, and when you press CH RTN, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned. This feature also works for external inputs.

Selecting the picture size

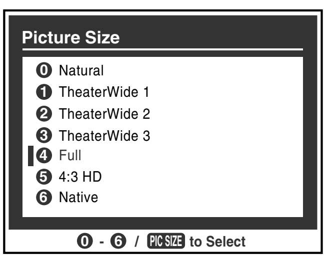
You can view many program formats in a variety of picture sizes—**Natural**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Full**, **4:3 HD** and **Native**.

Note: *The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.*

You can save separate picture size preferences for each input on your TV.

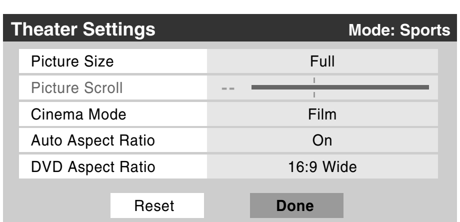
To select the picture size using the remote control:

1. Press PIC SIZE on the remote control.
2. While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
   - Repeatedly press PIC SIZE.
   - Press the corresponding Number button (0–6) while the **Picture Size** screen is open.
   - Press ▲ or ▼ while the **Picture Size** screen is open.



To select the picture size using the menus:

1. Select **Picture Size** in the **Theater Settings** menu.
2. Press ◀ or ▶ to select the desired picture size setting.
3. Highlight **Done** and press ENTER.



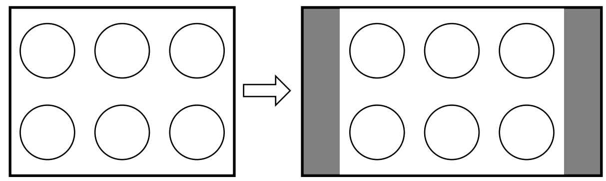
Note: *Some of the picture sizes may not be available depending on the receiving signal format (those will be "grayed out" in the **Picture Size** screen).*

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Note: *If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (**TheaterWide 2** and **3** only) or try viewing the program in **Full** or **Natural** picture size.*

Natural picture size

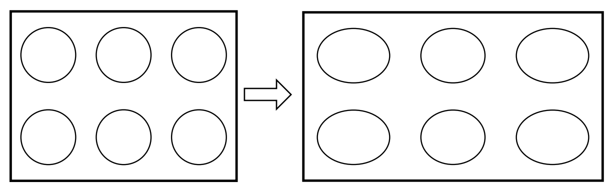
- The image is displayed close to its originally formatted proportion. Some program formats will display with sidebars and/or bars at the top and bottom.



Natural picture size example

TheaterWide 1 picture size (for 4:3 format programs)

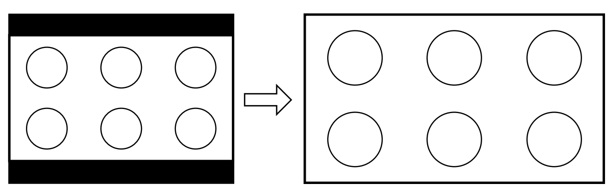
- The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.



TheaterWide 1 picture size example

TheaterWide 2 picture size (for letter box programs)

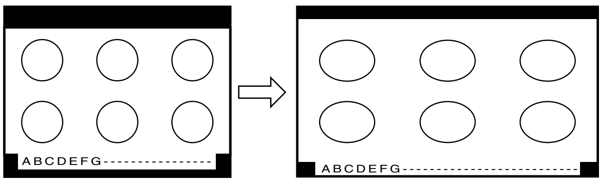
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see "Scrolling the TheaterWide® picture" (☞ page 43).



TheaterWide 2 picture size example

TheaterWide 3 picture size (for letter box programs with subtitles)

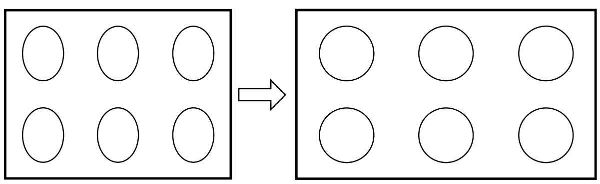
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide® picture."



TheaterWide 3 picture size example

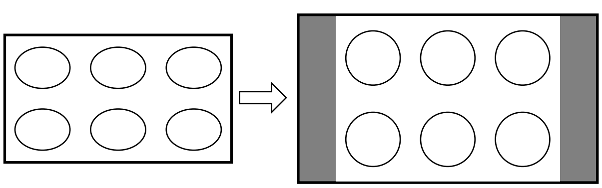
Full picture size (for 16:9 [480i, 480p] source programs only)

- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.


Full picture size example

4:3 HD picture size (for 720p, 1080i, and 1080p program sources only)

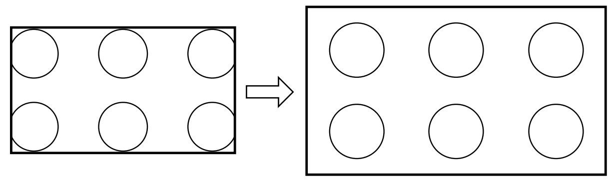
- Sidebars fill the empty vertical spaces.
- Picture is not distorted from original size.


4:3 HD picture size example

Native picture size (for 720p, 1080i, and 1080p signal programs)

- If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as HD-DVD, DVHS movies, or PC graphics.

Note:
- *Native picture size is available for 720p, 1080i, and 1080p signals only. If the signal being received is other than 1080i, 1080p, or 720p, "**Native**" will be grayed out in the **Picture Size** screen.*
- *This mode is supported only for HDMI and ColorStream inputs.*
- *Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.*

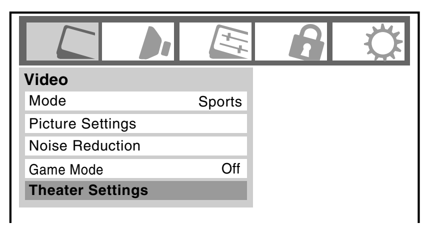

Native picture size example

Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

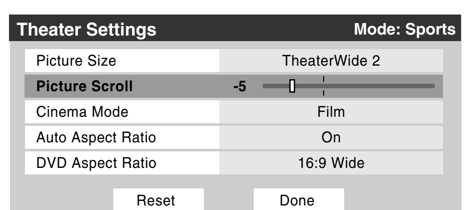
You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.



3. In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
4. Press ▼ to highlight the **Picture Scroll** field.
5. Press ◀ or ▶ to scroll the picture up and down as needed, from –10 to +20.



6. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

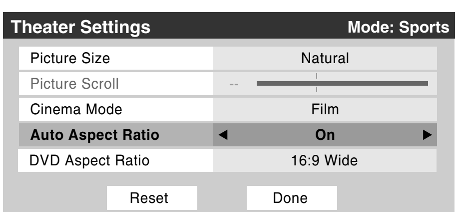
- A 480i signal from the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, or **ColorStream HD-2** input.
- A 480i, 480p, 720p, 1080i, 1080p, or VGA signal from the **HDMI** input.

Aspect ratio of signal source	Automatic aspect size (automatically selected when Auto Aspect is On)
4:3 normal	Natural (with sidebars)
4:3 letter box	TheaterWide 2
16:9 full	Full
Not defined (no ID-1 data or HDMI aspect data)	The current picture size you set under "Selecting the picture size" on page 42.

Note: *The auto aspect ratio feature is not applicable to antenna or cable input sources.*

To turn on the auto aspect ratio feature:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Auto Aspect Ratio** field, select **On**.



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

To turn off the auto aspect ratio feature:

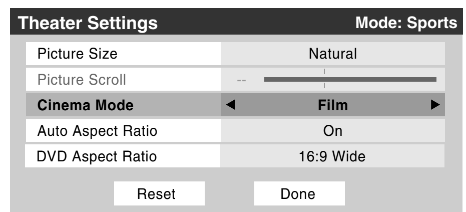
Select **Off** in step 3 above.

Selecting the cinema mode (480i and 1080i signals)

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, **ColorStream HD-2** (component video), or **HDMI** inputs on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

To set the Cinema Mode to Film:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **Cinema Mode** field, select **Film**.



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

To set the Cinema Mode to Video:

Select **Video** in step 3 above.

Adjusting the picture

Selecting the picture mode

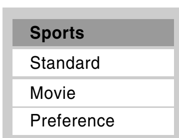
You can select your desired picture settings from four different modes, as described below.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture settings (factory setting)
Movie	Lower contrast for darkened room (factory setting)
Preference	Your personal preferences

To select the picture mode:

Press PIC MODE on the remote control.

The following popup menu appears on-screen.

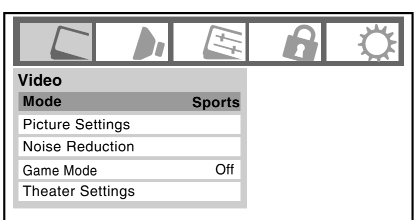


Press ▲ or ▼ to select the picture mode you prefer and press ENTER.

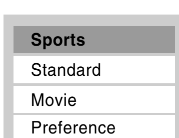
To select the picture mode using the menu system:

1 Press MENU and open the **Video** menu.

2 Highlight **Mode** and press ENTER.



3 Press ▲ or ▼ to select the picture mode you prefer and press ENTER.



Note: *The picture mode you select affects the current input only. You can select a different picture mode for each input.*

Adjusting the picture quality

You can adjust the picture quality (Contrast, Back Light, DynaLight™, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing ◀	Pressing ▶
Contrast	lower	higher
Back Light*	darker	lighter
DynaLight**	On/Off	On/Off
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

* Back Light
This feature adjusts the brightness of the entire screen. When in video mode and no signal is input, this will automatically be set to 0. (Settings are stored in memory.)

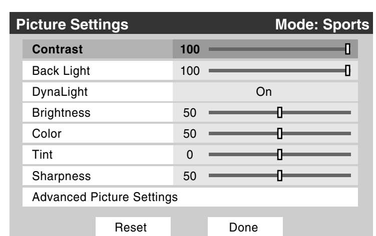
**DynaLight
This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

To adjust the picture quality:

1 Press MENU and open the **Video** menu.

2 Highlight **Picture Settings** and press ENTER.

3 Press ▲ or ▼ to select the picture quality you want to adjust (**Contrast**, **Back Light**, **DynaLight**, **Brightness**, **Color**, **Tint**, or **Sharpness**), and then press ◀ or ▶ to adjust the setting, as described in the table above.





4 To save the new settings, highlight **Done** and press ENTER.

You can use any of the picture modes (☞ "Selecting the picture mode," above left) as a starting point for adjusting the picture settings.

To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset** and press ENTER.

The picture qualities you adjusted are automatically saved in the **Preference** mode (☞ "Selecting the picture mode," above left) until **Reset** is selected.

Using the closed caption mode

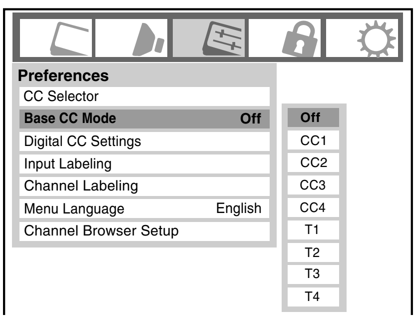
Base closed captions

The closed caption mode has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Base CC Mode** and press ▶.
3. Press ▲ or ▼ to select the desired closed caption mode and press ENTER.

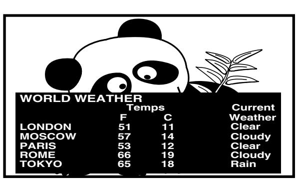


- **To view captions:**
  Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



Note: If the program or video you selected is not closed captioned, no captions will display on-screen.

- **To view text:**
  Highlight **T1**, **T2**, **T3**, or **T4**.



*Note: If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to **Off**.*

- **To turn off the closed caption mode:**
  Select **Off** in step 3 above.

Note: A closed caption signal may not display in the following situations:

- *When a videotape has been dubbed*
- *When the signal reception is weak*
- *When the signal reception is non-standard*

Digital CC Settings

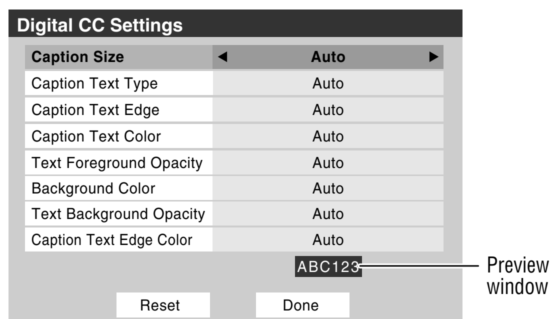
You can customize the closed caption display characteristics by changing the background color, opacity, text size, type, edge, and color.

Note:

- *This feature is available for digital channels only.*
- *You cannot set the Caption Text and Background as the same color.*

To customize the closed captions:

1. Press MENU and open the **Preferences** menu.
2. Highlight **Digital CC Settings** and press ENTER.
3. Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ▶ to select the format for that characteristic (see table below).



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals
Caption Text Edge	Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow
Caption Text Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Foreground Opacity	Auto, Transparent, Translucent Flashing, Solid
Background Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Background Opacity	Auto, Transparent, Translucent Flashing, Solid
Caption Text Edge Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan

CC Selector

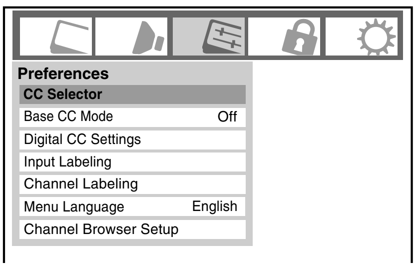
You can use the **CC Selector** to temporarily override the default analog caption mode (set in **Base CC Mode**) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current **Base CC Mode** setting.

You can also use the **CC Selector** to select digital closed caption services (if available). When such services are not available, the **CC Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

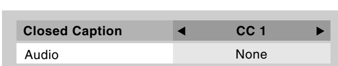
To select closed captions:

1 Press MENU and open the **Preferences** menu.

2 Highlight **CC Selector** and press ENTER.



3 Press ▲ or ▼ to select **Closed Caption**, and then press ◀ or ▶ to select the desired service.



4 Press EXIT.

Adjusting the audio

Muting the sound

Press MUTE to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press MUTE, the mute mode will change in the following order:

→ 1/2 Mute → Mute → Volume →

If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use VOL to set the volume to 0. See "Using the closed caption mode" (☞ page 46) for more information on closed caption modes.

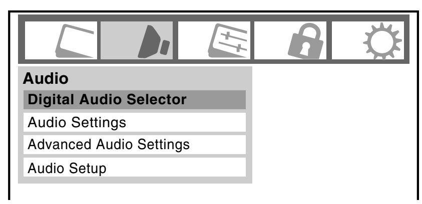
Using the digital audio selector

You can use the **Digital Audio Selector** to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (☞ "Selecting stereo/SAP broadcasts" on page 48).

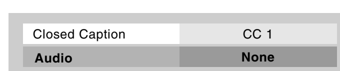
To use the digital audio selector:

1 Press MENU and open the **Audio** menu.

2 Highlight **Digital Audio Selector** and press ENTER.



3 Press ▲ or ▼ to select **Audio**, and then press ◀ or ▶ to select the desired service.



4 Press EXIT.

Selecting stereo/SAP broadcasts

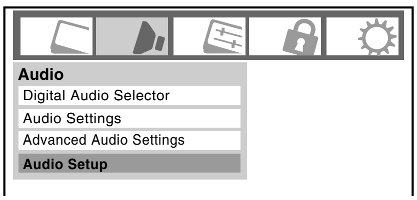
The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when RECALL is pressed. The MTS feature is not available when the TV is in VIDEO mode.

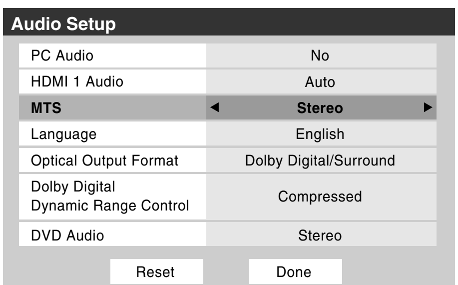
To listen to stereo sound:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Setup** and press ENTER.



3 In the **MTS** field, select **Stereo**.



4 To save the new settings, highlight **Done** and press ENTER. To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

Note:
- *You can typically leave the TV in **Stereo** mode because it will automatically output the type of sound being broadcast (stereo or monaural).*
- *If the stereo sound is noisy, select **Mono** to reduce the noise.*

To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 above, and then press ◀ or ▶ to select the language you prefer.

To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

Note:
- *A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.*
- *If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in **SAP** mode. If this happens, set the **MTS** feature to **Stereo** mode.*

Adjusting the audio quality

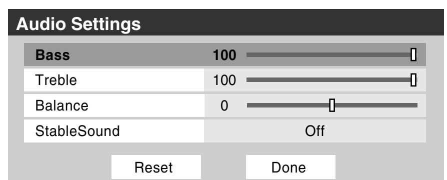
You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

1 Press MENU and open the **Audio** menu.

2 Highlight **Audio Settings** and press ENTER.

3 Press ▼ or ▲ to highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).



4 Press ◀ or ▶ to adjust the level.
- *◀ makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).*
- *▶ makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).*

5 To save the new settings, highlight **Done** and press ENTER. To reset the settings to the factory defaults, highlight **Reset** and press ENTER.

Using the StableSound® feature

The StableSound® feature limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

To turn on the StableSound® feature:

1. Press MENU and open the **Audio** menu.
2. Highlight **Audio Settings** and press ENTER.
3. In the **StableSound** field, select **On**.

Audio Settings	
Bass	100
Treble	100
Balance	0
StableSound	◄ **On** ►
Reset	Done

4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

   Note: *The RESET function returns your audio adjustments to the following factory settings:*

   Bass . . . . center (50)
   Treble . . . . center (50)
   Balance . . . . . . center (0)
   StableSound . . Off

To turn off the StableSound feature:

Select **Off** in step 3 above.

Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (see "Connecting a digital audio system" on page 21).

To select the optical audio output format:

1. Press MENU and open the **Audio** menu.
2. Highlight **Audio Setup** and press ENTER.
3. In the **Optical Output Format** field, select either **Dolby Digital/Surround** or **PCM**, depending on your device.

Audio Setup	
PC Audio	No
HDMI 1 Audio	Auto
MTS	Stereo
Language	English
Optical Output Format	◄ **Dolby Digital/Surround** ►
Dolby Digital Dynamic Range Control	Compressed
DVD Audio	Stereo
Reset	Done

4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Note: *You cannot change the optical audio output format while you are viewing a DVD. (You must be in FULL-STOP mode, not RESUME-STOP mode.)*

Using the Dolby® Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

To use the Dolby Digital Dynamic Range Control:

1. Press MENU and open the **Audio** menu.
2. Highlight **Audio Setup** and press ENTER.
3. In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.

Audio Setup	
PC Audio	No
HDMI 1 Audio	Auto
MTS	Stereo
Language	English
Optical Output Format	Dolby Digital/Surround
Dolby Digital Dynamic Range Control	◄ **Compressed** ►
DVD Audio	Stereo
Reset	Done

4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Note:

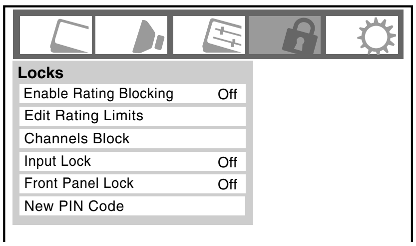
- *This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.*
- *The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).*

Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

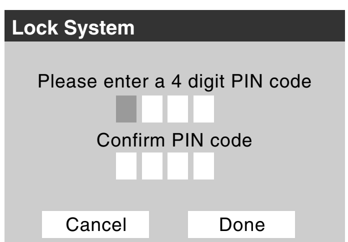
Entering the PIN code

1 Press MENU and highlight the **Locks** menu icon.

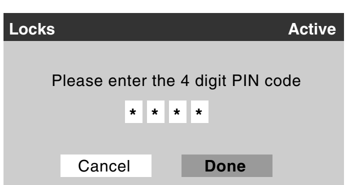


2 Press ▼, which displays the PIN code entry screen.

- The **Lock System** screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press ENTER.

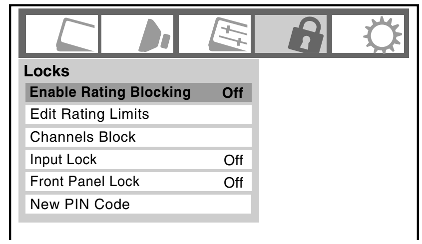


- The **Locks/Active** screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press ENTER.



If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press ENTER. Enter the code again and press ENTER.

When the correct PIN code is entered, the **Locks** menu opens.



If you cannot remember your PIN code

While the PIN code entering screen is displayed, press RECALL four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

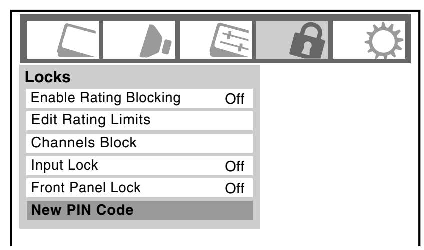
Changing your PIN code

1 Press MENU and highlight the **Locks** menu icon.

2 Press ▼ to display the PIN code entering screen.

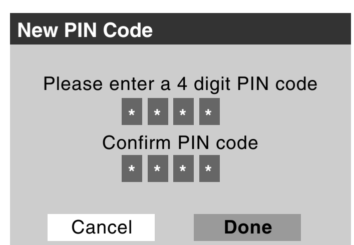
3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **New PIN Code** and press ENTER.



5 Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.

6 Press ENTER. The new PIN code is now active.



Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

Note: *Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.*

To block and unblock TV programs and movies:

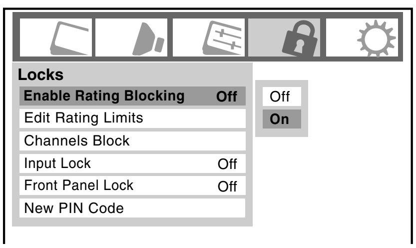
1 Press MENU and highlight the **Locks** menu icon.

2 Press ▼ to display the PIN code entering screen.

3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **Enable Rating Blocking**.

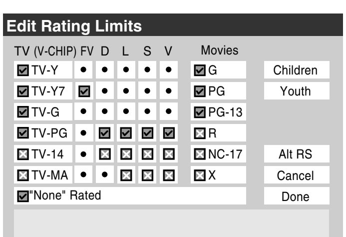
5 Press ▶ and ▼ to select **On**, and then press ENTER.



6 Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen (below) appears.

7 Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.

8 When done selecting the ratings you want to block, highlight **Done** and press ENTER.



Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

Note: *The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.*

To download the additional rating system (if available):

1 Press MENU and highlight the **Locks** menu icon.

2 Press ▼ to display the PIN code entering screen.

3 Enter your four-digit PIN code and press ENTER.

4 Press ▼ to highlight **Enable Rating Blocking**.

5 Press ▶ and ▼ to select **On**, and press ENTER.

6 Press ▼ to highlight **Edit Rating Limits** and press ENTER. The **Edit Rating Limits** screen appears.

7 Highlight **Alt RS** and press ENTER. The **Edit Alternate Ratings** screen will appear.

Note:
- *The **Alt RS** button will only be available if an additional rating system is currently available.*
- *It may take several minutes for the TV to download the additional rating system.*
- *The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.*

8 Press ▲▼◀▶ and then press ENTER to select the level of blocking you prefer. A box with an "✕" is a rating that will be blocked.

9 When you are finished selecting the ratings you want to block, highlight **Done** and press ENTER.

10 In the **Edit Rating Limits** screen, highlight **Done** and press ENTER.

Note:
- *The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.*
- *The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.*
- *The additional rating system is an evolving technology; therefore, availability, content, and format may vary.*

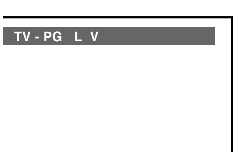
(continued)

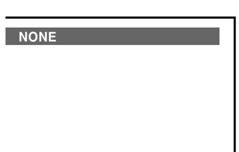
Independent rating system for broadcasters	
Ratings	**Description and Content themes**
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) **L)** Crude or indecent language **S)** Explicit sexual activity **V)** Graphic violence
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) **D)** Intensely suggestive dialog **L)** Strong, coarse language **S)** Intense sexual situations **V)** Intense violence
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) **D)** Some suggestive dialog **L)** Infrequent coarse language **S)** Some sexual situations **V)** Moderate violence
TV-G	General Audience (Most parents would find this program suitable for all ages.)
TV-Y7, TV-Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.)
TV-Y	All Children (This program is designed to be appropriate for all children.)

Independent rating system for movies	
Ratings	**Description and Content themes**
X	X-rated (For adults only)
NC-17	Not intended for anyone 17 and under
R	Restricted (Under 17 requires accompanying parent or adult)
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
PG	Parental Guidance Suggested (Some material may not be suitable for children)
G	General Audience (Appropriate for all ages)

Note:

- *If you place an "X" in the box next to " **'None' Rated**," programs rated "**None**" will be blocked; however, programs that do not provide any rating information will not be blocked.*
- *To display the rating of the program you are watching, press RECALL on the remote control. If it is rated "None," the word "**NONE**" appears in the **RECALL** screen (as shown below right). If rating information is not provided, no rating will appear in the **RECALL** screen.*



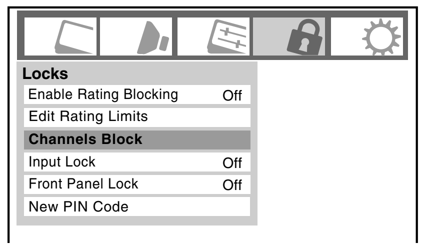


Blocking channels

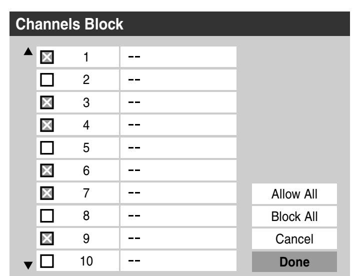
With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unlock them.

To block channels:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER (☞ page 50).
4. Press ▼ to highlight **Channels Block** and then press ENTER. A list of the channels available for that input will be displayed along with the call letters for each channel, if available.



5. Press ▲▼ to highlight the channel you want to block and press ENTER, which puts an "X" in the box next to that channel.



6. Repeat step 5 for other channels you want to block.
7. Highlight **Done** and press ENTER.

To unblock individual channels:

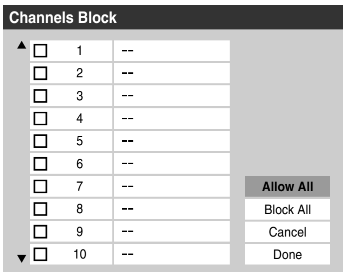
In step 5 above, press ▲▼ to highlight the channel you want to unblock, press ENTER to remove the "X" from the box, highlight **Done** and press ENTER.

To block all channels at once:

Highlight **Block All** in step 5 on previous page and then highlight **Done** and press ENTER.

To unblock all locked channels at once:

Highlight **Allow All** in step 5 on previous page and then highlight **Done** and press ENTER.



Unlocking programs temporarily

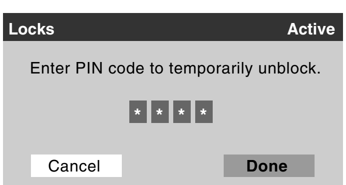
If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

> This program exceeds the rating limit you set.
> Push 'mute' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

To temporarily unlock the program:

1. Press MUTE.
2. Enter your four-digit PIN code and press ENTER. If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.



Using the input lock feature

You can use the Input Lock feature to lock the video inputs (**Built-In DVD**, **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, **ColorStream HD-2**, **HDMI 1**, **HDMI 2**, **HDMI 3** and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

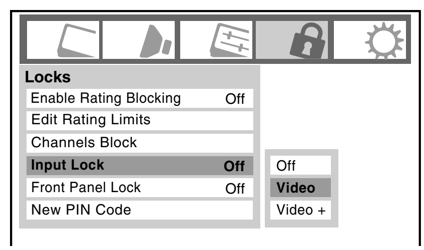
To lock/unlock the video inputs:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Input Lock** and press ▶.
5. Press ▲ or ▼ to select the level of video input locking you prefer, as described below.

   Video: Locks Built-In DVD, VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, and PC.

   Video+: Locks Built-In DVD, VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, PC and channels 3 and 4.

   - Select **Video+** if you play video tapes via an ANT input.

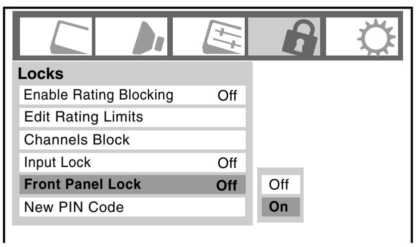
   Off: Unlocks all video inputs and channels 3 and 4.
6. Press ENTER.

Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

To lock the control panel:

1. Press MENU and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ENTER.
4. Press ▼ to highlight **Front Panel Lock**.
5. Press ▶ and ◀ or ▶ to highlight **On** and press ENTER. When the control panel is locked and any button on the control panel (except **POWER**) is pressed, the message "Not Available" appears.



To unlock the control panel:

Highlight **Off** in step 5 above, or press and hold the **VOLUME –** button on the TV control panel for about 10 seconds until the volume icon appears.

Using the PC settings feature

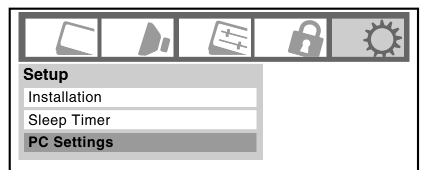
You can view an image from a PC on the TV screen.

When a PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image.

If the edges of the picture are cut off, readjust the **Horizontal Position** and **Vertical Position**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

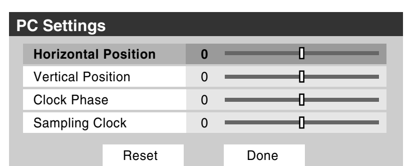
To adjust the PC settings:

1. Repeatedly press INPUT to select PC input mode (☞ "Selecting the video input source to view" page 38).
2. Press MENU and open the **Setup** menu.
3. Highlight **PC Settings** and press ENTER.



Note: *If a PC is not connected or there is no pc input signal, this feature will be grayed out in the* ***Setup*** *menu.*

4. Press ▲ or ▼ to highlight the item you want to adjust.
5. Press ◀ or ▶ to make the appropriate adjustments.



Note: *The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.*

- **Horizontal Position:**
  Moves the picture left/right.
  The adjustment range is within ±10 from center.*
- **Vertical Position:**
  Moves the picture up/down.
  The adjustment range is within ±10 from center.*
- **Clock Phase:**
  Helps to reduce noise and sharpen the picture.
  The adjustment range is within ±4 from center.*
- **Sampling Clock:**
  Helps to reduce noise and minimize periodic vertical stripes on the screen.
  The adjustment range is within ±5 from center.*

* The default settings may vary depending on the input signal format.

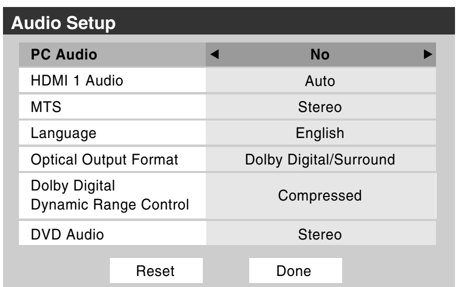
Setting the PC Audio

This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (☞ page 20)

To set the PC Audio:

1. Press MENU and open the **Audio** menu.
2. Highlight **Audio Setup** and press ENTER.
3. Press ▲ or ▼ to select **PC Audio** and then press ◀ or ▶ to select **No** or **Yes**.

   Yes: Outputs the sound from your PC.
   No: Mutes the sound from your PC, and outputs the sound from the HDMI-1 connection.



***Note:** Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "**No**," the **HDMI 1 Audio** setting changes to "**Auto**." If **PC Audio** is set to "**Yes**," the **HDMI 1 Audio** setting is set to "**Digital**" and is grayed out in the menu. (Also see item 4 on page 14 and "Setting the HDMI™ Audio mode" on page 35.)*

Setting the sleep timer

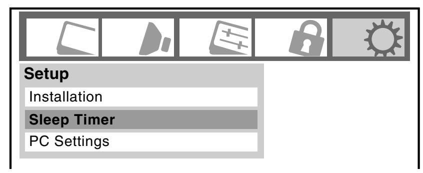
You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

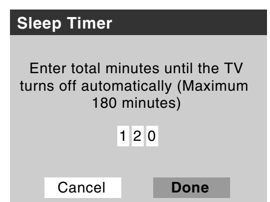
Press SLEEP on the remote control to set the length of time until the TV turns off. Repeatedly press SLEEP to increase the time in 10-minute increments, or press ▲ or ▼ to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To set the sleep timer using the on-screen menus:

1. Press MENU and open the **Setup** menu.
2. Highlight **Sleep Timer** and press ENTER.



3. Press the Number buttons to enter the length of time in 10-minute increments.

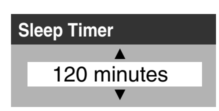


4. Highlight **Done** and press ENTER.

   ***Note:** When a power failure occurs, the sleep timer setting may be cleared.*

To display the remaining sleep time:

Press SLEEP.



***Note:** A message will display on-screen when there is one minute remaining on the sleep timer.*

To cancel the sleep timer:

Repeatedly press SLEEP until it is set to 0 minute.

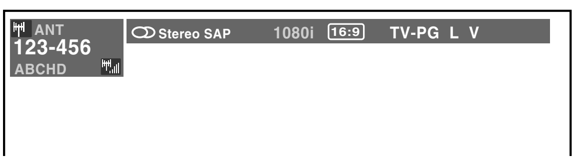
Displaying TV status information

To display TV status information using RECALL:

Press RECALL on the remote control.

The following information will display (if applicable):

- Current input (**ANT**, **VIDEO 1**, etc.)
- If ANT is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in **ANT** mode)
- Channel label (if set)
- Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
- Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
- Video resolution
- Aspect ratio of incoming video signal (4:3 or 16:9)
- V-Chip rating status



To close the RECALL screen:

Press RECALL again.

To display TV status information using INFO:

Press INFO on the remote control.

The following additional information will display for off air digital channels (if applicable):

- Title
- Duration
- Detailed description



Note: *The location of the banner can be moved to the top or bottom of the screen by pressing ▲ or ▼ while the RECALL or INFO display is on-screen. (The last position will be stored to memory.)*

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature functions in **ANT** mode and **Built-In DVD** mode (No disc) only.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.

Note: *You should unplug the TV's power cord if it is possible that you will be away from the TV for an extended period of time after the power is restored.*

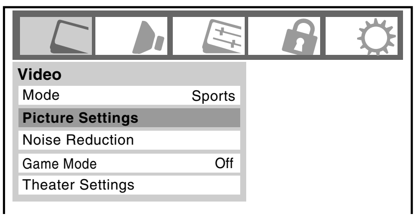
Using the advanced picture settings features

Using dynamic contrast

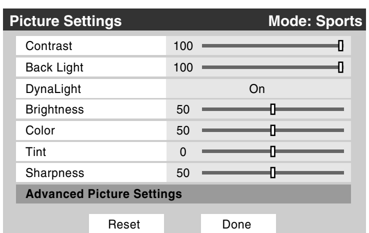
When dynamic contrast is set to **Low**, **Middle**, or **High**, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

To select dynamic contrast preferences:

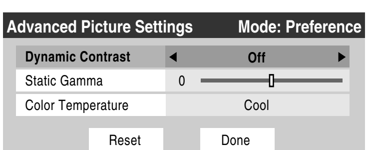
1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings** and press ENTER.



3. Highlight **Advanced Picture Settings** and press ENTER.



4. In the **Dynamic Contrast** field, select either **Off**, **Low**, **Middle** or **High**.



5. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

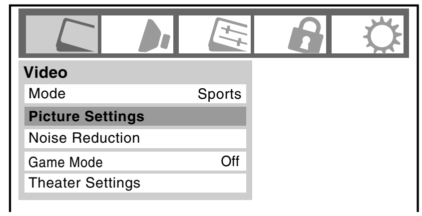
   Note: *If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the dynamic contrast setting, the picture mode automatically changes to **Preference**.*

Using the static gamma feature

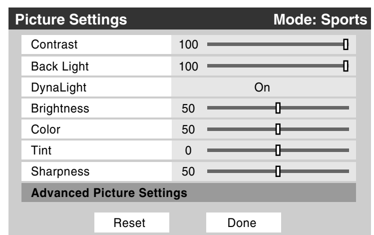
The static gamma feature allows you to adjust the levels of black in the picture.

To adjust the static gamma settings:

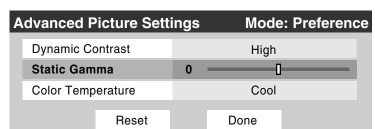
1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings** and press ENTER.



3. Highlight **Advanced Picture Settings** and press ENTER.



4. In the **Static Gamma** field, press ◀ or ▶ to adjust the static gamma.
   The adjustment range is within ±5 from center.



   - If the setting is moved in the minus direction, the detail of black colors will be decreased.
   - If the setting is moved in the plus direction, the detail of black colors will be increased.

5. To save the new settings, highlight **Done** and press ENTER.
   To revert the factory defaults, highlight **Reset** and press ENTER.

   Note: *If you select one of the factory-set picture modes (**Sports**, **Standard** or **Movie**) and then change the static gamma setting, the picture mode automatically changes to **Preference**.*

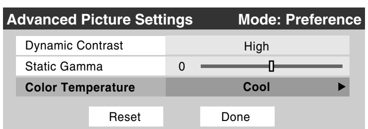
Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

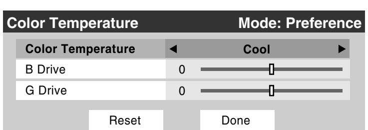
Mode	Picture Quality
Cool	blueish
Medium	neutral
Warm	reddish

To select the color temperature:

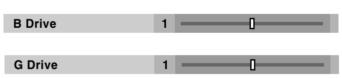
1. Press MENU and open the **Video** menu.
2. Highlight **Picture Settings** and press ENTER.
3. Highlight **Advanced Picture Settings** and press ENTER.
4. Highlight **Color Temperature** and press ENTER.



5. In the **Color Temperature** field, select the mode you prefer (**Cool**, **Medium**, or **Warm**).



6. Press ▲ or ▼ to select either **B Drive** or **G Drive**, and then press ◀ or ▶ to adjust the settings.



- B Drive: ▶ makes the picture blueish.
- G Drive: ▶ makes the picture greenish.

Note: *The* ***B Drive*** *and* ***G Drive*** *settings are connected to the* ***Color Temperature*** *settings and will change based on which setting is selected in step 5 above.*

7. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

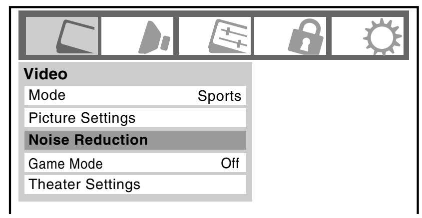
Note: *If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the color temperature mode, the picture mode automatically changes to **Preference**.*

Using CableClear® digital noise reduction

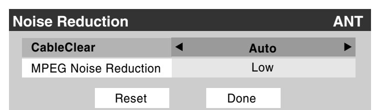
The CableClear® digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

To change the CableClear settings:

1. Press MENU and open the **Video** menu.
2. Highlight **Noise Reduction** and press ENTER.



3. In the **CableClear** field, select your desired setting.



Note:

- *If the current input is **ANT**, **VIDEO 1**, or **VIDEO 2**, the menu will display the text "CableClear." The available selections are **Off**, **Auto**, **Low**, **Middle**, and **High**.*
- *If the current input is **ColorStream HD1**, **ColorStream HD2**, **HDMI 1**, **HDMI 2**, or **HDMI 3** the menu will display the text "DNR." The available selections are **Off**, **Auto**, **Low**, **Middle**, and **High**. **Auto** will react proportionally to the strength of the noise. **Low**, **Middle**, and **High** will reduce the noise in varying degrees, from lowest to highest, respectively.*

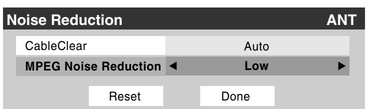
4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Using MPEG noise reduction

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off**, **Low**, **Middle**, and **High**. **Off** is automatically selected when this feature is disabled ("grayed out").

To select the MPEG noise reduction level:

1. Press MENU and open the **Video** menu.
2. Highlight **Noise Reduction** and press ENTER.
3. Press ▲ or ▼ to highlight the **MPEG Noise Reduction** field, and then press ◀ or ▶ to select either **Off**, **Low**, **Middle** or **High**.



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Using the Game Mode feature

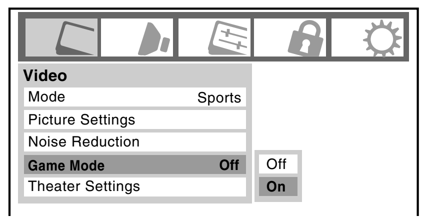
You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

This feature is more effective for 480i and 1080i input signals.

Note: *To use the Game Mode feature, the current video input must be **Video 1**, **Video 2**, **ColorStream HD1**, **ColorStream HD2**, **HDMI 1**, **HDMI 2**, or **HDMI 3**. The Game Mode cannot be turned on when any other video input is selected.*

To turn on Game Mode:

1. Press MENU and open the **Video** menu.
2. Press ▲ or ▼ to highlight the **Game Mode** field, and then press ◀ or ▶ to select **On**.



To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

Note: *You can change the video input by pressing INPUT on the remote control (☞ page 38).*

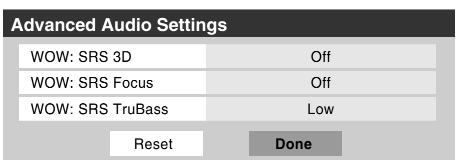
Using the advanced audio settings features

Using the SRS WOW™ surround sound feature

SRS WOW™ is a special combination of SRS Labs audio technologies (SRS 3D, SRS Focus, and SRS TruBass) that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV’s audio will sound fuller, richer, and wider.

To adjust the WOW™ settings:

1. Put the TV in **STEREO** mode (☞ “Selecting stereo/SAP broadcasts” on page 48).
2. Press MENU and open the **Audio** menu.
3. Highlight **Advanced Audio Settings** and press ENTER.
4. Press ▼ or ▲ to highlight the WOW feature you want to adjust, and then press ◀ or ▶ to adjust the item.



   - WOW: SRS 3D — To turn the surround sound effect **On** or **Off**.

     Note: *If the broadcast is monaural, the SRS 3D effect will not work.*
   - WOW: SRS Focus — To turn the vocal emphasis effect **On** or **Off**.
   - WOW: SRS TruBass — To select the desired bass expansion level (**Off**, **Low**, or **High**).
5. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.
WOW technology is incorporated under license from SRS Labs, Inc.

Playing a disc

Be sure to set the MODE SELECT switch on the remote control to TV mode when using the Built-In DVD input.

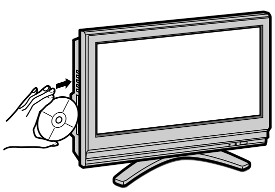
Basic playback DVD VCD CD

1 Press POWER on the TV or on the remote control to turn on the TV.
Press INPUT on the remote control or **INPUT** on the TV to select the **Built-In DVD** mode.

2 The DVD startup screen will appear on the screen.



3 Load the disc in the disc slot with the label side facing forward. (If the disc has a label.) Hold the disc without touching either of its surfaces, align it with the guides, and place it in position.



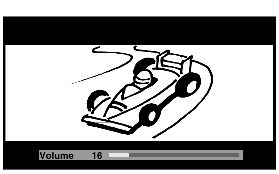
Note: *When inserting a disc into the DVD disc slot, do not jam or force it strongly, otherwise the TV may malfunction or the disc might be damaged. If left with half the disc inserted, the disc will be loaded automatically.*

4 "READING" appears on the screen, then playback starts.



- A menu screen will appear on the TV screen, if the disc has a title menu. Press ▲▼◀▶ to select title, then press ENTER. Title is selected and play commences.

5 Press VOL+ VOL– to adjust the volume.



Note: *When using an amplifier, adjust the volume with the amplifier.*

6 Press STOP to end playback.

Resume feature

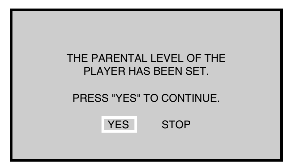
- Depending on the disc you are playing, when you press STOP one time, the TV memorizes the location where playback is stopped. Press PLAY to resume the playback from the stopped location.
- If you press STOP again or eject the disc, the TV will clear the stopped location.

Auto Play feature

If you load a disc when the TV is off, the TV will power on and playback will commence automatically. However, loading the disc may take 1-2 seconds.

About the Parental Lock screen

If the Parental Lock YES/NO screen appears after loading a disc and you want to temporarily unlock the Parental Lock, select "YES" and then input the PIN CODE following the on-screen menu. (The Parental Lock YES/NO screen may be repeated two times depending on the disc.)



Note:
- *Some unlocked discs may not resume playback after the input source has been changed.*
- *If you stop and restart playback, a message may appear on the screen. In this case, please eject the disc and reload it.*
- *If you are unable to proceed from the Parental Lock screen, please eject the disc and reload it.*

CAUTION

Never insert your finger into the disc hole when loading a disc into the disc slot.
Keep your fingers well clear of the disc slot when a disc is loading or unloading. Neglecting to do so may cause personal injury.

Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that the DVD player contained in this television will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on the DVD player contained in this television, please contact Toshiba Customer Service.

(continued)

> ***Note:*** *You cannot adjust the following items while a DVD is playing:*
> - *Optical Output Format (☞ page 49)*
> - *Audio Language (☞ page 48)*
> - *DVD Audio (☞ page 65)*
> - *Menu Language (☞ page 32)*
> - *V-Chip (parental control) setting (☞ page 51)*
> - *DVD Aspect Ratio (☞ page 63)*
>
> *If you want to adjust any of the above, stop the DVD by pressing STOP twice, and then adjust (☞ "Resume feature").*

Note: *Strong static electricity may affect the DVD player's operation and cause it to work improperly. If this happens, turn OFF the POWER, disconnect and then reconnect the AC power cord, and turn ON the TV again.*

About DVD VCD CD

The DVD VCD CD icons on the heading bar show the playable discs for the function described under that heading.

DVD : You can use this function with DVD video discs.

VCD : You can use this function with Video CDs.

CD : You can use this function with Audio CDs and CD-R/RW discs.

To start playback from stop mode:

Press PLAY.

To pause playback (still mode):

Press PAUSE/STEP during playback.

To resume normal playback, press PLAY.

Note: *The sound is muted during still mode.*

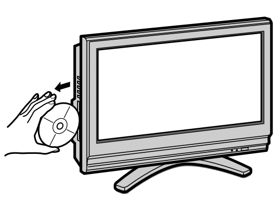
To stop playback:

Press STOP.

To remove the disc:

1 Press EJECT on the remote control or **OPEN/CLOSE** on the TV. The disc will come out halfway.

2 Press EJECT again to remove the disc or press PLAY to play again.

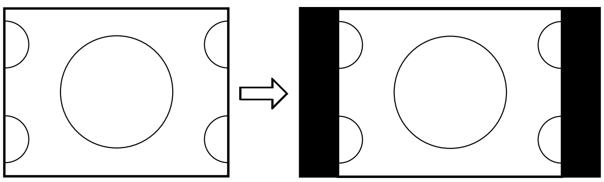


Note:
- *If a non-compatible disc is loaded, "DISK REGION INCORRECT" will appear on the TV screen. In this case, check your disc again (☞ page 7).*
- *Some discs may take a minute or so to start playback.*
- *If you insert a single-sided disc the wrong way, "READING" will appear on the display for about 30-60 seconds and then "BAD DISC" will display until you remove the disc.*
- *Some discs may not resume playing the same scene after stopping.*
- *Some DVD playback operation may be intentionally fixed by the software producers. Since this TV plays DVDs according to the disc contents as designed by the software producers, some playback features may not be available. Also refer to the instructions supplied with the DVDs.*
- *Do not move the TV during playback. Doing so may damage the disc. If you want to move the TV to another place or room, be sure to eject the disc and turn off the power beforehand.*
- *If the disc does not load when it is first inserted into the DVD disc slot, remove the disc once and try to load the disc again.*
- *Do not put any objects other than discs in the disc slot. Doing so may cause the TV to malfunction.*
- *When you press a button, there may be a slight delay before the function activates.*

Using the DVD aspect ratio feature

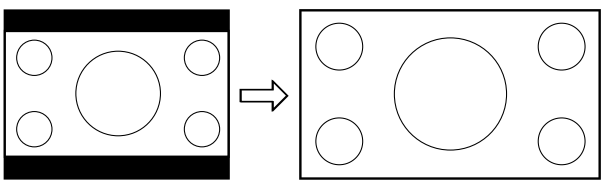
When you view a DVD from the Built-In DVD input, you can select the DVD aspect ratio, as described below.

- **4:3 Pan Scan:** Black bars are visible on right and left sides of the screen.



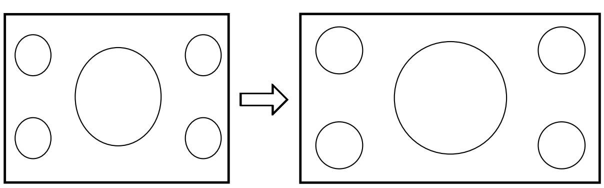
Picture where both sides of the original wide screen image are cropped.

- **4:3 Letter Box:** The picture is stretched wider and taller to fill the screen.



Letter box picture

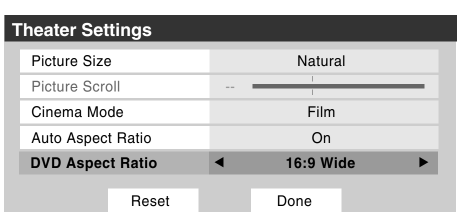
- **16:9 Wide:** The picture is stretched wider to fill the width of the screen.



Squeezed picture

To select the DVD aspect ratio:

1. Press MENU and open the **Video** menu.
2. Highlight **Theater Settings** and press ENTER.
3. In the **DVD Aspect Ratio** field, select the mode you prefer (**4:3 Pan Scan**, **4:3 Letter Box**, or **16:9 Wide**).



4. To save the new settings, highlight **Done** and press ENTER. To revert to the factory defaults, highlight **Reset** and press ENTER.

Note: *You cannot change the DVD aspect ratio while you are viewing a DVD. (You must be in FULL-STOP mode, not RESUME-STOP mode.)*

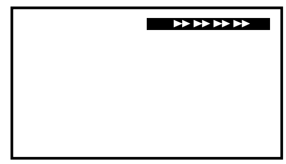
Playing in fast reverse or fast forward DVD VCD CD

Press REW or FF during playback.

REW: Fast reverse playback (DVD/VCD: 2X-64X, CD/MP3: 2X-16X)

FF: Fast forward playback (DVD/VCD: 2X-64X, CD/MP3: 2X-16X)

Each time you press REW or FF, the playback speed changes.



To resume normal playback: DVD VCD CD

Press PLAY.

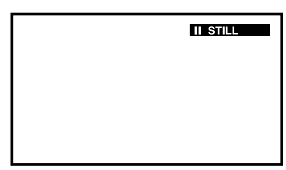
Note:

- *The TV mutes sound and subtitles during reverse and forward scan of DVD video discs. However, the TV plays sound during fast forward or fast reverse play of audio CDs.*
- *The playback speed may differ depending on the disc.*

To pause playback (still playback)

DVD VCD CD

Press PAUSE/STEP during playback.



To resume normal playback:

Press PLAY.

Note: *The sound is muted during still playback.*

Playing frame by frame DVD VCD

Press PAUSE/STEP during still playback.

Each time you press PAUSE/STEP, the picture advances one frame.

To resume normal playback:

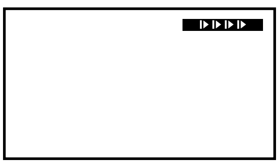
Press PLAY.

Note: *The sound is muted during frame by frame playback.*

Playing in slow motion DVD VCD

Press SLOW or SLOW during playback.

Each time you press the button, the slow-motion speed changes (DVD/VCD: 1/32-1/2).



To resume normal playback:

Press PLAY.

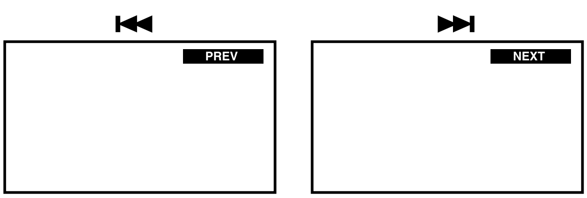
Note:

- *The sound is muted during slow-motion playback.*
- *SLOW is not available for the VCD disc.*

Locating a chapter or track DVD VCD CD

Press SKIP or SKIP repeatedly to select the chapter or track you want.

Playback starts from beginning of the selected chapter or track.



Note: *A "Prohibition" symbol ⊘ may appear at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the TV cannot access the feature at this time. This does not indicate a problem with the TV.*

Changing angles DVD

You can change the viewing angle of the scene during playback if the disc is recorded with multi-angle facility.

1. Press ANGLE during playback.
   The current angle will appear.
2. Press ANGLE repeatedly until the desired angle is selected.

Note: *Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.*

Title selection DVD

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1. Press TOP MENU during playback.
   Title menu appears on the screen.
2. Press ▲▼◀▶ to select the desired title.
3. Press ENTER or PLAY.
   The playback of the selected title will start.

Note:

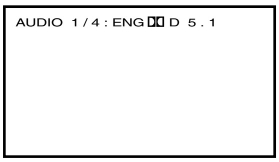
- *Depending on the DVD, you may not be able to select the title.*
- *Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.*
- *Depending on the DVD, the title menu may be displayed automatically when the disc is loaded.*
- *Depending on the DVD, a chapter menu may be displayed after you select a title.*

Changing soundtrack language

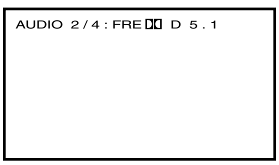
DVD VCD

You can select the language when you play a multilingual disc.

1 Press AUDIO during playback.
The current soundtrack language will appear.



2 Press AUDIO repeatedly until the desired language is selected.
- The on-screen display will disappear after a few seconds.

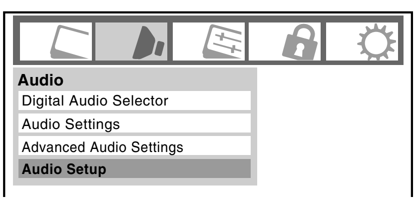


In case of Video CD playback

1 Stop the disc playback.

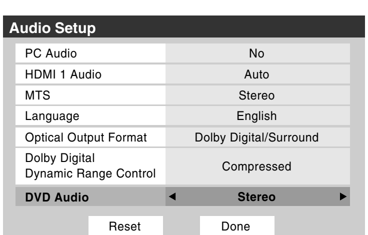
2 Press MENU and open the **Audio** menu.

3 Highlight **Audio Setup** and press ENTER.



4 Press ▲ or ▼ to highlight **DVD Audio**, and then press ◀ or ▶ to select the desired audio mode (**Stereo**, **L-Mono**, **R-Mono**, or **MIX-Mono**).

Note: *This item may not be selectable depending on the disc.*

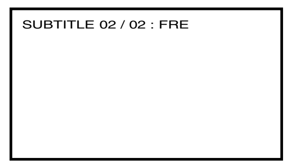


Note:
- *If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.*
- *Changing soundtrack language is cancelled when you eject the disc. The initial default language or available language will be heard if the disc is played back again.*
- *If you select DTS in playing DTS-encoded disc, no sound will be heard from the TV's speakers.*

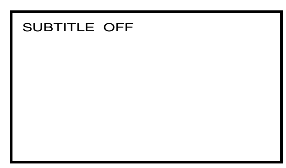
Subtitles DVD

When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

1 Press SUB TITLE repeatedly during playback until your desired language appears.



2 To turn off the subtitle, press SUB TITLE until "SUBTITLE OFF" appears.
- The "SUBTITLE OFF" on-screen display will disappear after a few seconds.



Note:
- *Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.*
- *While playing a DVD, the subtitles may turn on or off when you load or eject the disc.*
- *In some cases, a selected subtitle language may not be changed immediately.*

Disc status DVD VCD CD

With each press of RECALL, the status of the disc will appear on the screen and change as follows:

Display example

DVD

TITLE / CHAPTER
CHAPTER ELAPSED
↓
CHAPTER REMAIN
↓
TITLE ELAPSED
↓
TITLE REMAIN
↓
OFF

VCD

TRACK **/**
TRACK ELAPSED
↓
TRACK REMAIN
↓
OFF

MP3 Files

FILE ELAPSED
↓
FILE REMAIN
↓
OFF

CD

TRACK **/**
TRACK ELAPSED
↓
TRACK REMAIN
↓
DISC ELAPSED
↓
DISC REMAIN
↓
OFF

MP3/JPEG CD operation

This TV can play MP3/JPEG-data which has been recorded on CD-R or CD-RW.

To produce MP3/JPEG-data, you need a Windows-PC with CD-R/RW drive and MP3/JPEG-encoding Software (not supplied).

Files recorded on an Apple® HFS (hierarchical file system) volume cannot be played.

Apple is a registered trademark of Apple Computer, Inc.

MP3/JPEG CD information VCD

Limitations on MP3/JPEG CD playback

- MP3/JPEG CDs must meet ISO9660 standards. Files must have one of the following extensions: .mp3, or .jpg.
- MP3/JPEG CDs cannot be used for the purpose of recording.
- If the CD has both audio tracks and MP3/JPEG files, only audio tracks are played.
- It may take more than 1 minute for this TV to read MP3/JPEG files depending on its structure.

Note:
- *Some MP3/JPEG CDs cannot be played back depending on the recording conditions.*
- *The CD-R/RWs that has no music data or non MP3/JPEG files cannot be played back.*

MP3 CD playback (CD)

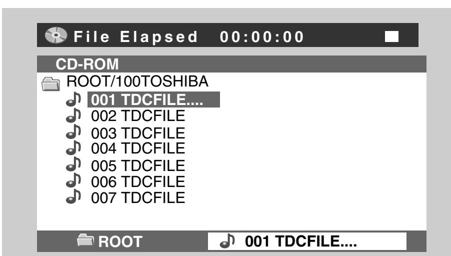
1 Load a disc on which MP3 files have been recorded in the disc slot.

2 A file menu screen will appear on the screen. Press ▲ or ▼ to select a folder and then press ENTER to open the folder.

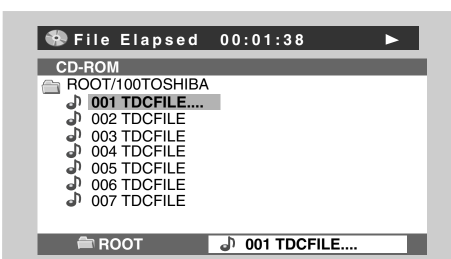


3 Press ▲▼◀▶ to highlight the desired file. The selected file is highlighted in blue.

Note: *To return to the previous menu, press DVD RTN.*



4 Press PLAY (the file is highlighted in yellow).



The selected file starts playing back.
To advance to the next MP3 file, press SKIP ▶▶|.
To return to the previous MP3 file, press SKIP |◀◀.
To restart the playing MP3 file, press ENTER.
For fast reverse playback, press REW.
For fast forward playback, press FF.

5 Press STOP to end playback (the file is highlighted in yellow).

- The TV records the stopped point where playback ended. Press PLAY to resume playback (from the same point).
- If you press STOP again (the file is highlighted in blue) or unload the disc, the TV will clear the stopped point.

Note:
- *The DIGITAL AUDIO OUT terminal on the TV outputs MP3 sounds in the linear PCM format regardless of the current “Optical Output Format” selection.*
- *The DVD player contained in this television requires discs/ recordings to meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R containing MP3/WMA files). Not all recordable discs will operate or produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.*
- *You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.*

About the menu icons

- ♪ : Indicates MP3 file
- : Indicates JPEG file

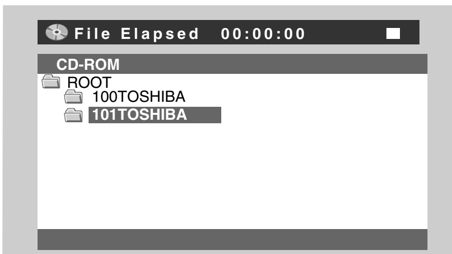
Note:
- *The slide show will start automatically when the FUJICOLOR CD or the Kodak Picture CD is played. Pressing STOP displays thumbnail view.*
  However, depending on the recording conditions, those discs may not operate properly.
- *MP3 files on the Kodak Picture CD are not recognized on this TV.*
- *When displaying the MP3/JPEG files, use the **Natural** or **Full** picture size (☞ page 42).*

JPEG CD playback (CD)

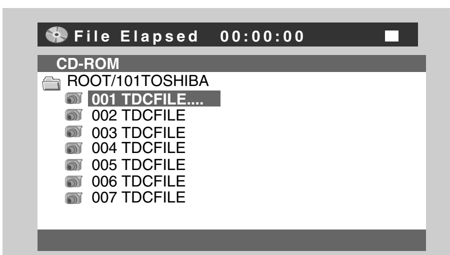
You can select your desired JPEG file from the file menu. The slide show enables you to view pictures (files) one after another automatically.

1 Load a disc on which JPEG files have been recorded in the disc slot.

2 A file menu screen will appear. Press ▲ or ▼ to select a folder and then press ENTER to open the folder.

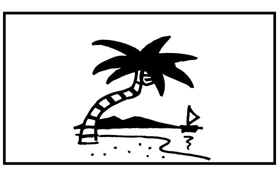


3 Press ▲▼◀ ▶ to select the desired file.



4 Press PLAY to start the slide show from the selected file.

If you playback the selected file only, press ENTER. While the picture is on-screen, you can rotate the picture by 90° using ▲▼◀ ▶ buttons.



5 Press STOP to end playback. The file menu will appear on the screen. If you want to view another file, repeat steps 3–4.

- If you press PAUSE/STEP during the slide show, the slide show stops temporarily. “PAUSE” appears on the screen. Press PLAY again to resume the slide show.
- To display the next file, press SKIP ▶▶|.
- To display the previous file, press SKIP |◀◀.
- When slide show playback has finished, the file list appears.
- To stop the slide show, press STOP. The file list will appear.

General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

Black box on-screen

- The closed caption feature is set to one of the Text modes (**T1**, **T2**, **T3**, or **T4**). Set the closed caption feature to **Off** (☞ page 46).

TV stops responding to controls

- If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

Other problems

- If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (☞ page 37).

TV will not turn on

- Make sure the power cord is plugged in, and then press POWER.
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

Picture problems

General picture problems

- Check the antenna/cable connections (☞ Chapter 2).
- Press INPUT on the remote control or TV and select a valid video input source (☞ page 38). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (☞ page 45).
- If you are using a VCR, make sure TV/VCR on the remote control is set correctly (☞ page 25).
- Do not connect both a standard video cable and an S-video cable to the **VIDEO 1** input at the same time (☞ page 17).

Noisy picture

- If you are watching an analog channel (off-air broadcast or Cable TV), you can set the **CableClear®/DNR** feature to **AUTO** to reduce visible interference in the TV picture (☞ page 58).

Video Input Selection problems

- If the **Input Selection** window does not appear when you press INPUT on the remote control or TV, press INPUT a second time, which will change to the next video input source and display the **Input Selection** window.

Cannot view external signals or channel 3 or 4

- If you cannot view signals from external devices connected to **VIDEO 1**, **VIDEO 2**, **ColorStream®**, **HDMI 1**, **HDMI 2**, **PC** or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (☞ page 53).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (☞ page 45).

Poor composite or S-video picture

- If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a **ColorStream** or **HDMI** video connection instead.

Picture and sound are out of sync

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g.. television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
  - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
  - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

LED indications while in reboot from standby

- When you plug the power cord in, the yellow LED will blink until the TV enters standby mode, (plugged in but not powered on). This is normal and is not a sign of malfunction.

Sound problems

- Check the antenna/cable connections (☞ Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press **VOLUME**.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (☞ page 48).
- If you are not receiving a second audio program from a known SAP source, make sure the **MTS** feature is set to **SAP** mode (☞ page 48).
- If you hear audio that seems "incorrect" for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (☞ page 48).

Remote control problems

- Make sure the remote control is set to the correct device mode (☞ page 24).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (☞ page 23).

(continued)

- Your TV remote control may not operate certain features on your external device. Refer to the owner's manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (☞ pages 25–29).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (☞ page 37).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (☞ page 24).
- The channel may have been erased from the channel memory by the **Channel Add/Delete** feature. Add the channel to the channel memory (☞ page 33).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (☞ page 52).
- If you are unable to tune digital channels, check the antenna configuration (☞ page 32). If you are still unable to tune digital channels, clear all channels from the channel list (☞ page 34) and reprogram channels into the channel memory (☞ page 33). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (☞ page 37). Also see "TV stops responding to controls" and "Other problems" (☞ page 69).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display (☞ page 46).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (☞ page 46).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (☞ page 46).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press RECALL four times within 5 seconds. The PIN code you previously stored will be cleared (☞ page 50).
- The V-Chip feature is available for the U.S. V-Chip system only (☞ page 51).

DVD Troubleshooting

Playback doesn't start

- The disc is reversed. Load the disc with the playback side facing backward.
- No disc is loaded. Load the playable disc.
- The disc may be dirty. Clean the disc.
- The TV cannot play CD-ROMs, etc. Load a playable disc.

No picture

- TV selector is not set correctly.

No sound

- The analog audio output terminals on the TV do not output the sounds from the disc. Connect your digital audio system to the **DIGITAL AUDIO OUT** terminal on the TV.
- Make sure the input selector of the amplifier is set properly.
- The TV is in the special playback mode.

Picture is distorted during fast reverse/forward playback

- The picture will be distorted occasionally.

Stopping playback, search, slow-motion play, or changing angles, etc. cannot be performed

- Some discs may not perform certain functions.

No surround sound

- The setup may not match your stereo system.

The TV or remote operation key is not functioning

- Turn off the TV and unplug the AC power cord for several minutes, then replug it.

Audio soundtrack and/or subtitle language is not changed when you play back a DVD

- Multilingual language is not recorded on the DVD disc.

No subtitle

- Some discs have no subtitles.
- Subtitles are cleared. Press SUB TITLE.

Angle cannot be changed

- Multi-angles are not recorded on the DVD discs.

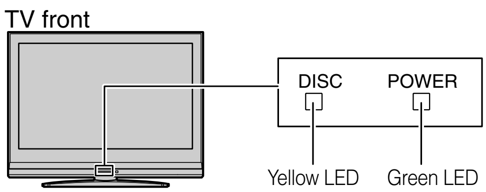
⊘ appears on the screen

- The function is prohibited with the TV or the disc.

LED indications

The green and yellow LED lights on the TV front indicate the TV's status, as described below.

Note: *If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the yellow LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.*



LED Indication	Condition	Solution
1) Green is ON (solid).	The TV is operating properly.	–
2) Yellow is ON (solid).	A disc is in the disc slot.	–
3) Yellow blinks three times.	TV is powering up.	Wait several seconds until the yellow LED stops blinking.
4) Green blinks slowly.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
5) Green blinks quickly.	Power protect detection.	

If, after trying the solutions, the problem still exists:

- In the U.S., call TACP Consumer Solutions at 1-800-575-5469.
- In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to **www.toshiba.ca**; click "Home Entertainment," and then click "Support."

Specifications

Note:
- ***This model complies with the specifications listed below.***
- ***Designs and specifications are subject to change without notice.***
- ***This model may not be compatible with features and/or specifications that may be added in the future.***

Television System

NTSC standard
ATSC standard (8VSB)
Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

Channel Coverage

VHF: 2 through 13
UHF: 14 through 69
Cable TV: Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

Power Source: 120 V AC, 60 Hz

Power Consumption

26LV67: 80 W (average)
16.0 W in standby mode
32LV67/32LV67U:
105 W (average)
16.0 W in standby mode

Audio Power: 10 W + 10 W

Speaker Type: Two 2-3/8 × 4-3/4 inches (6 × 12 cm)

Video/Audio Terminals

S-VIDEO INPUT:
Y: 1 V(p-p), 75 ohm, negative sync.
C: 0.286 V(p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT:
VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohm or greater)

ColorStream® (component video) HD INPUT:
VIDEO:Y: 1V(p-p), 75 ohm
PR: 0.7 V(p-p), 75 ohm
PB: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 720p, 480p, 480i
AUDIO: 150 mV(rms), 22 k ohm or greater

HDMI™ INPUT:
HDMI compliant (type A connector)
HDCP compliant
Audio Lip Sync supported
Suggested formats: See table below
HDMI Audio: 2-channel L-PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample

FIXED AUDIO OUTPUT:
150 mv (rms) (30% modulation equivalent, 2.2 k ohm or less)

DIGITAL AUDIO OUTPUT:
Optical type

PC INPUT:
15-Pin D-sub Analog RGB

DVD/CD Player

DVD signal system NTSC
DVD region number 1
Applicable disc 1. DVD (12cm, 8cm [with Disc adapter])
2. CD (12cm, 8cm [with Disc adapter])
Pickup 1-Lens, 2-Beams system

Dimensions

26LV67: Width: 26-1/4 inches (666 mm)
Height: 20-1/4 inches (514 mm)
Depth: 9-1/2 inches (241 mm)
32LV67/32LV67U:
Width: 31-1/2 inches (800 mm)
Height: 23-3/8 inches (592 mm)
Depth: 11-1/4 inches (285 mm)

Mass (weight)

26LV67: 30.0 lbs (13.6 kg)
32LV67: 40.3 lbs (18.3 kg)
32LV67U: 40.3 lbs (18.3 kg)

Operating conditions

Temperature: 32ºF - 95ºF (0ºC - 35ºC)
Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories

- Remote control with two size “AAA” batteries
- Owner’s manual (this book)
- Lead clip
  Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 20 on page 3.

HDMI input supports the following signal formats:

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 x 480p	59.940/60Hz	31.469/31.500kHz	25.175/25.200MHz
480i	720 x 480i	59.940/60Hz	15.734/15.750kHz	27.000/27.027MHz
480p	720 x 480p	59.940/60Hz	31.469/31.500kHz	27.000/27.027MHz
720p	720 x 480p	59.940/60Hz	44.955/45.000kHz	74.176/74.250MHz
1080i	1920 × 1080i	59.940/60Hs	33.716/33.750kHz	74.176/74.250MHz
1080p	1920 × 1080p	23.976/24Hz	26.973/27.000kHz	74.176/74.250MHz
1080p	1920 × 1080p	59.940/60Hz	67.433/67.500kHz	148.352/148.500MHz

Limited United States Warranty

for LCD TV/DVD Combinations 26" and Larger

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV/DVD COMBINATION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.
LCD TV/DVD COMBINATIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.
LCD TV/DVD COMBINATIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor
TACP warrants this LCD TV/DVD Combination and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the LCD TV/DVD Combination will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

Rental Units
The warranty for LCD TV/DVD Combination rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units
TACP warrants LCD TV/DVD Combinations that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

Owner's Manual and Product Registration Card
Read this owner's manual thoroughly before operating this LCD TV/DVD Combination.

Complete and mail the enclosed product registration card or register your LCD TV/DVD Combination online at **www.tacp.toshiba.com/service** as soon as possible. By registering your LCD TV/DVD Combination you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act.
Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must retain your original bill of sale or provide other proof of purchase.
(2) All warranty servicing of this LCD TV/DVD Combination must be performed by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if this LCD TV/DVD Combination is purchased and operated in the Continental U.S.A. or Puerto Rico.
(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD TV/DVD Combination or parts that have been lost or discarded by you or to damage to the LCD TV/DVD Combination or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD TV/DVD Combination and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Service

If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:

(1) To find the nearest TACP Authorized Service Station, visit TACP's website at **www.tacp.toshiba.com/service** or contact TACP's Consumer Solution Center toll free at 1-800-575-5469.
(2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

For additional information, visit TACP's website: www.tacp.toshiba.com

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS LCD TV/DVD COMBINATION).

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

Limited Canadian Warranty

for Toshiba Brand Flat Panel Televisions

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION(S)" or "Television(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

TELEVISIONS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour

Subject to the more limited warranty if the Television is used for any commercial or business purposes as set out below, TCL warrants the Television and its parts against material defects in materials or workmanship that result in the Television failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR.

(a) FOR TELEVISIONS 32 INCHES OR LESS: YOU MUST DELIVER THE ENTIRE TELEVISION TO A TCL TELEVISION AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

(b) FOR TELEVISIONS OVER 32 INCHES: During this period, ASP personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the Television will be taken to an ASP for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

Limited Warranty for Commercial Units

TCL warrants Televisions that are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the Television failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

(c) FOR TELEVISIONS 32 INCHES OR LESS: YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

(d) FOR TELEVISIONS OVER OVER 32 INCHES: During this period, ASP personnel will come on-site when warranty service is required. Depending on the type of repair required, the service will either be performed on-site or the Television will be taken to an ASP for repair and returned at no cost to you. ON-SITE SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

Rental Units

The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.
(2) All warranty servicing of this Television must be performed by an ASP.
(3) The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("ADR's") and (ii) located/operated in Canada.
(4) Labour charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
(5) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
    a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, screen burn or image retention caused by prolonged display of static images and/or phosphor aging, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television;
    b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
    c. Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
    d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
    e. Service on third party products or service made necessary by use of incompatible third party products;
    f. Service made necessary by the simultaneous use of this Television and connected equipment;
    g. Modifications to the Television not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Television;
    h. Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
    i. On-site service and repair of the Television; and
    j. Damage to the Television caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

Disclaimer and Limitation of Remedy

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If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the “Troubleshooting” section, you find that service is needed:

(1) To find the nearest ASP, visit TCL’s web site at **www.toshiba.ca**, or call toll free 1-800-268-3404
(2) Present your bill of sale or other proof of purchase to the ASP.

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